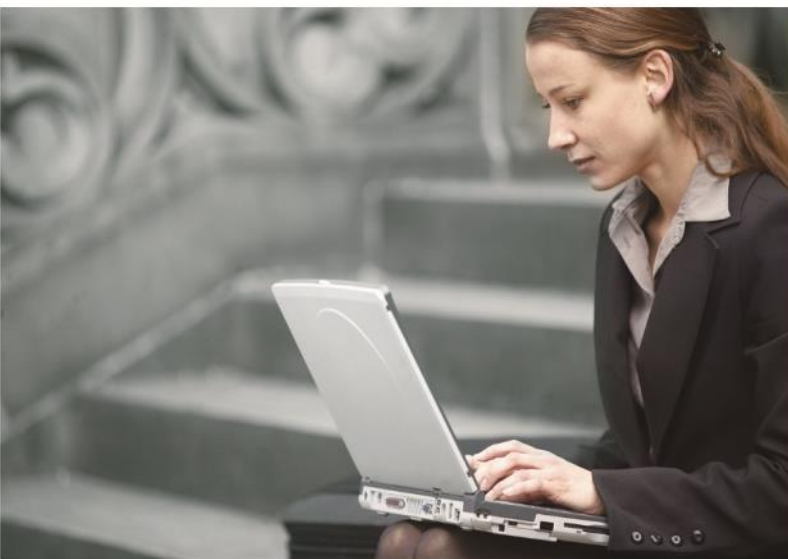




# User's Manual

Wi-Fi 7 Dual Band 802.11be 3600Mbps  
Outdoor Wireless Access Point

▶ **WDAP-3600BE**



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## Federal Communication Commission Interference Statement



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

**FCC Caution:**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. To assure continued compliance, for example, use only shielded interface cables when connecting to computer or peripheral devices.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

**FCC Radiation Exposure Statement**

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

**CE Compliance Statement**

This device meets the RED 2014/53/EU requirements on the limitation of exposure of the general public to electromagnetic fields by way of health protection. The device complies with RF specifications when it is used at a safe distance of 20 cm from your body.

**Safety**

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

**WEEE regulation**

To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

**Revision**

User Manual of PLANET Wi-Fi 7 802.11be 3600 Mbps Outdoor Wireless Access Point

Model: WDAP- 3600BE

Rev: 1.0 (Nov, 2025)

Part No. EM-WDAP-3600BE

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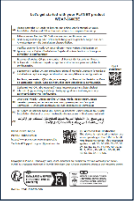
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# Chapter 1. Product Introduction

## 1.1 Package Contents

Thank you for choosing PLANET 802.11be 3600Mbps Wireless AP. Please verify the contents inside the package box.

| WDAP-3600BE                                                                        | Antenna x 2                                                                        | Cable Tie x 2                                                                       |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|   |   |  |
| CloudNMS App Sheet x 1                                                             | QR Code Sheet x 1                                                                  |                                                                                     |
|  |  |                                                                                     |



If any of the above items are missing, please contact your dealer immediately.

### IMPORTANT SAFETY PRECAUTIONS:



- 1) **LIVES MAY BE AT RISK!** Please be aware of the electrical wires around. Carefully read the section "**OUTDOOR INSTALLATION WARNING**" in the manual before installation.
- 2) Users **MUST complete grounding wired** with the device; otherwise, a sudden lightning could cause fatal damage to the device. **EMD (Lightning) DAMAGE IS NOT COVERED UNDER WARRANTY.**
- 3) Users **MUST** power off the device first before connecting the antenna to it; otherwise, damage might be caused to the device itself.
- 4) 4) Power off the device before connecting any antennas to prevent damage

## 1.2 Product Description

### Outdoor-grade Wi-Fi 7 AP for High-speed and Reliable Wireless Coverage

PLANET WDAP-3600BE is a rugged outdoor wireless access point that delivers **next-generation Wi-Fi 7 (802.11be)** performance with an aggregated throughput of up to **3600Mbps (2.4GHz: 688Mbps + 5GHz: 2882Mbps)**. Designed for harsh environments, it ensures **ultra-fast, low-latency, and stable connectivity** for outdoor campuses, industrial parks, resorts, and smart city deployments.

### Ruggedized Outdoor Design

Built with a weatherproof housing, the WDAP-3600BE withstands **-30°C to 70°C operating temperatures** and harsh outdoor conditions. Combined with **dual high-gain external antennas**, it provides **extended coverage** and reliable performance in wide-area wireless deployments.



## High-density Wi-Fi 7 Performance

Equipped with advanced Wi-Fi 7 features such as **4096-QAM, MU-MIMO, OFDMA, BSS Coloring, and Beamforming**, the WDAP-3600BE supports multiple simultaneous users with consistent connectivity—ideal for outdoor public Wi-Fi, transportation hubs, and enterprise campuses.



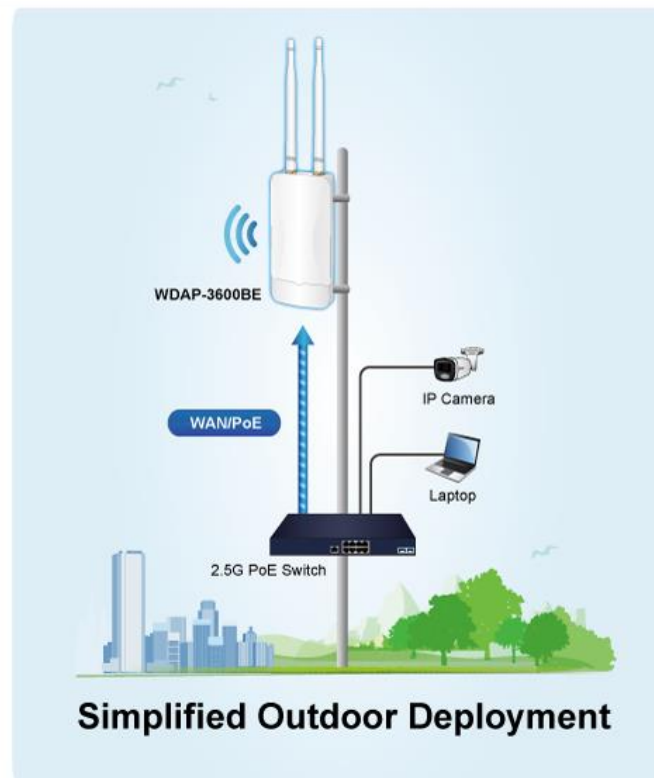
## Robust Security and Business-ready Features

To safeguard sensitive business and personal data, the WDAP-3600BE supports the latest **WPA3 encryption**, VLAN-to-SSID mapping, and client isolation. Combined with its flexible SSID configuration and advanced access control, it ensures a **secure and well-segmented wireless environment** for both commercial and hospitality applications.



## Flexible Power and Deployment

The WDAP-3600BE supports **IEEE 802.3at PoE+** and **12V DC power**, providing flexible installation options. Its **1 × 2.5GBASE-T PoE WAN port** and **1 × Gigabit LAN port** enable high-speed wired backhaul while reducing cabling complexity.



## Multiple Operation Modes for Various Applications

The WDAP-3600BE supports the simplified usage modes of **Access Point**, **Gateway**, **Repeater** and **WISP** mode, through which they provide more flexibility for users when wireless network is established. Compared with general wireless access points, the WDAP-3600BE offers more powerful and flexible capability for wireless clients.

## PLANET CloudNMS – Cloud-Based Universal Network Management

PLANET's **CloudNMS** platform and mobile app empower IT staff to remotely manage all network devices and Powered Devices (PDs) in real time. Designed for enterprises and industries, CloudNMS minimizes the need for on-site troubleshooting by providing centralized monitoring, fault detection, and instant alerts.

With **CloudNMS**, businesses can manage diverse network deployments more **efficiently, securely, and intelligently**—all from a single cloud-based platform.



## 1.3 Product Features

### Standard-compliant Outdoor Wireless LAN

- Compliant with IEEE 802.11a/b/g/n/ac/ax/be (Wi-Fi 7) dual-band wireless technology
- Dual-band concurrent operation with a maximum wireless throughput of 3600Mbps (2.4GHz: 688Mbps, 5GHz: 2882Mbps)
- Built-in support for advanced Wi-Fi 7 features: 4096-QAM, OFDMA, MU-MIMO, Beamforming, BSS Coloring, Seamless Roaming (802.11k/v/r)

### Rugged Outdoor Hardware Design

- 1 × 100/1000/2500BASE-T PoE+ WAN port (802.3at PoE+ PD)
- 1 × 10/100/1000BASE-T LAN port
- Dual-band high-gain external antennas for extended outdoor coverage
- IP-rated weatherproof housing with wide temperature support (-30°C ~ 70°C)

### Multiple Operation Modes and Wireless Features

- Flexible operation modes: Gateway, AP, Repeater, WISP
- Supports up to 8 SSIDs (4 per band) with VLAN-to-SSID mapping
- Wi-Fi Multimedia (WMM) for optimized audio/video streaming
- Real-time Wi-Fi channel analysis chart for interference management
- Seamless roaming with 802.11k/v/r to ensure uninterrupted client mobility

### Secure Network Connection

- Comprehensive wireless security with WPA3 Personal, WPA2/WPA3 Personal, WPA2 Enterprise, WPA/WPA2 Enterprise
- VLAN support with SSID-to-VLAN mapping, plus IP/MAC filtering and client isolation
- Enhanced security with ACL management to prevent unauthorized access

### Easy Deployment and Centralized Management

- Powered by 802.3af/at PoE+, simplifying installation by combining power and data through a single Ethernet cable
- Fully compatible with PLANET CloudNMS app, and AP Controllers, enabling centralized monitoring and management
- Self-healing mechanism through system auto-reboot scheduling
- User-friendly Web GUI and setup wizard for quick configuration and monitoring

**Product Specifications**

|                                          |                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product</b>                           | <b>WDAP-3600BE</b><br>Wi-Fi 7 Dual Band 802.11be 3600Mbps Outdoor Wireless Access Point                                                                                                                                                                                                                                  |
| <b>Hardware Specifications</b>           |                                                                                                                                                                                                                                                                                                                          |
| <b>Interfaces</b>                        | WAN/PoE: 1 x 100/1000/2500BASE-T RJ45 port<br>LAN: 1 x 10/100/1000BASE-T RJ45 port<br>Auto-negotiation and auto MDI/MDI-X                                                                                                                                                                                                |
| <b>Antennas</b>                          | 2 x External dual-band RP-SMA type antennas (2.4GHz / 5GHz: 5dBi)                                                                                                                                                                                                                                                        |
| <b>Reset Button</b>                      | Reset button on the rear side (Press 6-10 seconds to reset the device to factory default.)                                                                                                                                                                                                                               |
| <b>LED Indicators</b>                    | 5 x Green LEDs for Power, LAN, WAN, and Wi-Fi (2.4GHz / 5GHz) status                                                                                                                                                                                                                                                     |
| <b>Dimensions (W x D x H)</b>            | 86 x 30 x 186 mm (without antennas)                                                                                                                                                                                                                                                                                      |
| <b>Weight</b>                            | 550g                                                                                                                                                                                                                                                                                                                     |
| <b>Material</b>                          | ABS+PC                                                                                                                                                                                                                                                                                                                   |
| <b>Power Requirements</b>                | IEEE 802.3af/at PoE (End-span only, Mid-span not supported), DC 12V/2A                                                                                                                                                                                                                                                   |
| <b>Power Consumption</b>                 | Max. 5.5 watts / 18.76 BTU (Power on without any connection)<br>Max. 9.5 watts / 32.4 BTU (Full loading)                                                                                                                                                                                                                 |
| <b>Mounting</b>                          | Mast mounting                                                                                                                                                                                                                                                                                                            |
| <b>IP Level</b>                          | IP65                                                                                                                                                                                                                                                                                                                     |
| <b>Surge Protection</b>                  | ±2KV (Common Mode), ±1KV (Differential Mode)                                                                                                                                                                                                                                                                             |
| <b>Wireless Interface Specifications</b> |                                                                                                                                                                                                                                                                                                                          |
| <b>Standard</b>                          | 5GHz:<br>IEEE 802.11be<br>IEEE 802.11ax<br>IEEE 802.11ac<br>IEEE 802.11n<br>IEEE 802.11a<br>2.4GHz:<br>IEEE 802.11be<br>IEEE 802.11ax<br>IEEE 802.11n<br>IEEE 802.11b<br>IEEE 802.11g<br>IEEE 802.3 10BASE-T<br>IEEE 802.3u 100BASE-TX<br>IEEE 802.3ab 1000BASE-T<br>IEEE 802.3bz 2500BASE-T<br>IEEE 802.3x flow control |

|                                  |                                                                                                                                                                                                                                                                                                                     |                  |                                  |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------|
|                                  | IEEE 802.11k, 802.11v, and 802.11r*<br>IEEE 802.11i                                                                                                                                                                                                                                                                 |                  |                                  |
| <b>Media Access Control</b>      | CSMA/CA                                                                                                                                                                                                                                                                                                             |                  |                                  |
| <b>Data Modulation</b>           | 802.11be: MIMO-OFDM/OFDMA (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM / 4096QAM)<br>802.11ax: MIMO-OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM, 1024QAM)<br>802.11ac: MIMO-OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)<br>802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)<br>802.11b: DSSS (DBPSK / DQPSK / CCK) |                  |                                  |
| <b>Band Mode</b>                 | 2.4GHz / 5GHz concurrent mode                                                                                                                                                                                                                                                                                       |                  |                                  |
| <b>Frequency Range</b>           | <b>2.4GHz:</b><br>FCC: 2.412~2.462GHz<br>ETSI: 2.412~2.472GHz<br><b>5GHz:</b><br>FCC: 5.180~5.240GHz, 5.745~5.825GHz<br>ETSI: 5.180~5.700GHz                                                                                                                                                                        |                  |                                  |
| <b>Operating Channels</b>        | ETSI:<br><b>2.4GHz:</b> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 (13 Channels)<br><b>5GHz:</b> 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140 (19 channels)                                                                                                                 |                  |                                  |
|                                  | FCC:<br><b>2.4GHz:</b> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 (11 channels)<br><b>5GHz:</b> 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 149, 153, 157, 161, 165 (24 channels)                                                                                                 |                  |                                  |
|                                  | <b>5GHz channel list may vary in different countries according to their regulations.</b>                                                                                                                                                                                                                            |                  |                                  |
| <b>Max. Transmit Power (dBm)</b> | FCC: up to 22 ± 2dBm<br>ETSI: < 19dBm (EIRP)                                                                                                                                                                                                                                                                        |                  |                                  |
|                                  | <b>Network Mode</b>                                                                                                                                                                                                                                                                                                 | <b>Data Rate</b> | <b>Max. Transmit Power (dBm)</b> |
|                                  | <b>2.4G Power</b>                                                                                                                                                                                                                                                                                                   |                  |                                  |
|                                  | 802.11b                                                                                                                                                                                                                                                                                                             | 11M              | 22 ± 2                           |
|                                  |                                                                                                                                                                                                                                                                                                                     | 1M               | 22 ± 2                           |
|                                  | 802.11g                                                                                                                                                                                                                                                                                                             | 54M              | 20 ± 2                           |
|                                  |                                                                                                                                                                                                                                                                                                                     | 6M               | 22 ± 2                           |
|                                  | 802.11n HT20                                                                                                                                                                                                                                                                                                        | MCS7             | 18 ± 2                           |
|                                  |                                                                                                                                                                                                                                                                                                                     | MCS0             | 20 ± 2                           |
|                                  | 802.11n HT40                                                                                                                                                                                                                                                                                                        | MCS7             | 18 ± 2                           |
|                                  |                                                                                                                                                                                                                                                                                                                     | MCS0             | 20 ± 2                           |
|                                  | 802.11ax HE20                                                                                                                                                                                                                                                                                                       | MCS11            | 17 ± 2                           |
|                                  |                                                                                                                                                                                                                                                                                                                     | MCS0             | 20 ± 2                           |
|                                  | 802.11ax HE40                                                                                                                                                                                                                                                                                                       | MCS11            | 17 ± 2                           |

|                     |                 |           |                           |
|---------------------|-----------------|-----------|---------------------------|
|                     |                 | MCS0      | 21 ± 2                    |
|                     | 802.11be EHT20  | MCS13     | 16 ± 2                    |
|                     |                 | MCS0      | 20 ± 2                    |
|                     | 802.11be EHT40  | MCS13     | 16 ± 2                    |
|                     |                 | MCS0      | 20 ± 2                    |
|                     | 5G Power        |           |                           |
|                     | 802.11a         | 54M       | 18 ± 2                    |
|                     |                 | 6M        | 20 ± 2                    |
|                     | 802.11n HT20    | MCS7      | 17 ± 2                    |
|                     |                 | MCS0      | 19 ± 2                    |
|                     | 802.11n HT40    | MCS7      | 18 ± 2                    |
|                     |                 | MCS0      | 19 ± 2                    |
|                     | 802.11ac VHT20  | MCS7      | 16 ± 2                    |
|                     |                 | MCS0      | 19 ± 2                    |
|                     | 802.11ac VHT40  | MCS7      | 17 ± 2                    |
|                     |                 | MCS0      | 19 ± 2                    |
|                     | 802.11ac VHT80  | MCS9      | 17 ± 2                    |
|                     |                 | MCS0      | 19 ± 2                    |
|                     | 802.11ax HE20   | MCS11     | 16 ± 2                    |
|                     |                 | MCS0      | 19 ± 2                    |
|                     | 802.11ax HE40   | MCS11     | 16 ± 2                    |
|                     |                 | MCS0      | 19 ± 2                    |
|                     | 802.11ax HE80   | MCS11     | 15 ± 2                    |
|                     |                 | MCS0      | 18 ± 2                    |
|                     | 802.11ax HE160  | MCS11     | 15 ± 2                    |
|                     |                 | MCS0      | 19 ± 2                    |
|                     | 802.11be EHT20  | MCS13     | 15 ± 2                    |
|                     |                 | MCS0      | 19 ± 2                    |
|                     | 802.11be EHT40  | MCS13     | 14 ± 2                    |
|                     |                 | MCS0      | 19 ± 2                    |
|                     | 802.11be EHT80  | MCS13     | 14 ± 2                    |
|                     |                 | MCS0      | 19 ± 2                    |
|                     | 802.11be EHT160 | MCS13     | 13 ± 2                    |
|                     |                 | MCS0      | 18 ± 2                    |
| Receive Sensitivity | Network Mode    | Data Rate | Receive Sensitivity (dBm) |
|                     | 2.4GHz          |           |                           |
|                     | 802.11b         | 11Mbps    | -90                       |
|                     |                 | 1Mbps     | -98                       |
|                     | 802.11g         | 54Mbps    | -78                       |
|                     |                 | 6Mbps     | -96                       |
|                     | 802.11n HT20    | MCS7      | -76                       |
|                     |                 | MCS0      | -95                       |
|                     | 802.11n HT40    | MCS7      | -73                       |
|                     |                 | MCS0      | -92                       |
|                     | 802.11ax HE20   | MCS11     | -66                       |
|                     |                 | MCS0      | -96                       |
|                     | 802.11ax HE40   | MCS11     | -63                       |
|                     |                 | MCS0      | -93                       |

|                   |                                                                                                      |        |     |
|-------------------|------------------------------------------------------------------------------------------------------|--------|-----|
|                   | 802.11be EHT20                                                                                       | MCS13  | -60 |
|                   |                                                                                                      | MCS0   | -86 |
|                   | 802.11be EHT40                                                                                       | MCS13  | -60 |
|                   |                                                                                                      | MCS0   | -86 |
|                   | 5GHz                                                                                                 |        |     |
|                   | 802.11a                                                                                              | 54Mbps | -75 |
|                   |                                                                                                      | 6Mbps  | -93 |
|                   | 802.11n HT20                                                                                         | MCS7   | -74 |
|                   |                                                                                                      | MCS0   | -92 |
|                   | 802.11n HT40                                                                                         | MCS7   | -71 |
|                   |                                                                                                      | MCS0   | -89 |
|                   | 802.11ac VHT20                                                                                       | MCS7   | -69 |
|                   |                                                                                                      | MCS0   | -92 |
|                   | 802.11ac VHT40                                                                                       | MCS7   | -64 |
|                   |                                                                                                      | MCS0   | -89 |
|                   | 802.11ac VHT80                                                                                       | MCS9   | -61 |
|                   |                                                                                                      | MCS0   | -86 |
|                   | 802.11ax HE20                                                                                        | MCS11  | -63 |
|                   |                                                                                                      | MCS0   | -93 |
|                   | 802.11ax HE40                                                                                        | MCS11  | -60 |
|                   |                                                                                                      | MCS0   | -90 |
|                   | 802.11ax HE80                                                                                        | MCS11  | -56 |
|                   |                                                                                                      | MCS0   | -87 |
|                   | 802.11ax HE160                                                                                       | MCS11  | -54 |
|                   |                                                                                                      | MCS0   | -84 |
|                   | 802.11be EHT20                                                                                       | MCS13  | -54 |
|                   |                                                                                                      | MCS0   | -86 |
|                   | 802.11be EHT40                                                                                       | MCS13  | -52 |
|                   |                                                                                                      | MCS0   | -84 |
|                   | 802.11be EHT80                                                                                       | MCS13  | -50 |
|                   |                                                                                                      | MCS0   | -82 |
|                   | 802.11be EHT160                                                                                      | MCS13  | -48 |
|                   |                                                                                                      | MCS0   | -80 |
| 2.4G EVM          | 802.11b : ≤-10dB ; 802.11g : ≤-25dB ; 802.11n : ≤ -28dB ; 802.11ax : ≤ -35dB ; 802.11be : ≤-38dB     |        |     |
| 5G EVM            | 802.11a : ≤-25dB ; 802.11n : ≤-28dB ; 802.11ac : ≤ -32dB ;<br>802.11ax : ≤ -35dB ; 802.11be : ≤-38dB |        |     |
| Software Features |                                                                                                      |        |     |
| LAN               | Static IP / Dynamic IP                                                                               |        |     |
| WAN               | Static IP<br>Dynamic IP<br>PPPoE / PPTP / L2TP                                                       |        |     |
| Wireless Mode     | Access Point<br>Gateway<br>Repeater<br>WISP                                                          |        |     |

|                                        |                                                                                                                                                                                                                                                                   |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Channel Width</b>                   | 20MHz, 40MHz, 80MHz, 160MHz                                                                                                                                                                                                                                       |
| <b>Encryption Security</b>             | WPA3 Personal<br>WPA2/WPA3 Personal<br>WPA2 Personal (AES)<br>WPA2 Personal (TKIP)<br>WPA2 Personal (TKIP+AES)<br>WPA/WPA2 Personal (AES)<br>WPA/WPA2 Personal (TKIP)<br>WPA/WPA2 Personal (TKIP+AES)<br>WPA2 Enterprise (802.1X)<br>WPA/WPA2 Enterprise (802.1X) |
| <b>Supported EAP Methods</b>           | EAP - Transport Layer Security (TLS)<br>EAP-Tunneled TLS (TTLS) + Microsoft Challenge Handshake Authentication Protocol Version 2 (MSCHAPv2)<br>Protected EAP (PEAP) v0 + EAP-MSCHAPv2<br>PEAP v1 + EAP-Generic Token Card (GTC)                                  |
| <b>Wireless Security</b>               | Enable/Disable SSID broadcast<br>Wireless max. 32 MAC address filtering<br>User isolation                                                                                                                                                                         |
| <b>Max. SSIDs</b>                      | 8 (4 per radio)                                                                                                                                                                                                                                                   |
| <b>Max. Clients</b>                    | 256 (128 is suggested, depending on usage)                                                                                                                                                                                                                        |
| <b>Wireless QoS</b>                    | Supports Wi-Fi Multimedia (WMM)                                                                                                                                                                                                                                   |
| <b>Wireless Advanced</b>               | Auto Channel Selection<br>5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced (50%), Standard (25%) or Min (15%)<br>Client Limit Control, Coverage Threshold<br>Wi-Fi channel analysis chart<br>Seamless roaming<br>Beamforming<br>BSS coloring  |
| <b>Status Monitoring</b>               | Device status, wireless client List<br>PLANET Smart Discovery<br>DHCP client table<br>System Log supports remote syslog server                                                                                                                                    |
| <b>VLAN</b>                            | IEEE 802.1Q VLAN (VID: 1~4094)<br>SSID-to-VLAN mapping to up to 4 SSIDs                                                                                                                                                                                           |
| <b>Self-healing</b>                    | Supports auto reboot settings per day/hour                                                                                                                                                                                                                        |
| <b>Management</b>                      | Remote management through PLANET DDNS/ Easy DDNS<br>Configuration backup and restore<br>Supports UPnP*<br>Supports IGMP Proxy<br>Supports PPTP/L2TP/IPSec VPN Pass-through<br>Supports Captive Portal*, RADIUS Server/Client                                      |
| <b>Central Management</b>              | Applicable controllers: NMS APC, WS APC, VR/IVR APC, ICG APC, PLANET CloudNMS                                                                                                                                                                                     |
| <b>Environment &amp; Certification</b> |                                                                                                                                                                                                                                                                   |

|                                                                                    |                                                                           |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| <b>Temperature</b>                                                                 | Operating: -30~ 70 degrees C<br>Storage: -40 ~ 70 degrees C               |
| <b>Humidity</b>                                                                    | Operating: 10 ~ 90% (non-condensing)<br>Storage: 5 ~ 95% (non-condensing) |
| <b>Regulatory</b>                                                                  | CE, RoHS                                                                  |
| <b>Remarks</b> [*]: The feature will be supported through firmware/system upgrade. |                                                                           |

## Chapter 2. Physical Descriptions

### 2.1 Product Outlook

- **Dimensions**  
86 x 30 x 186 mm (without antennas)
- **Weight**  
550 g

#### Appearance

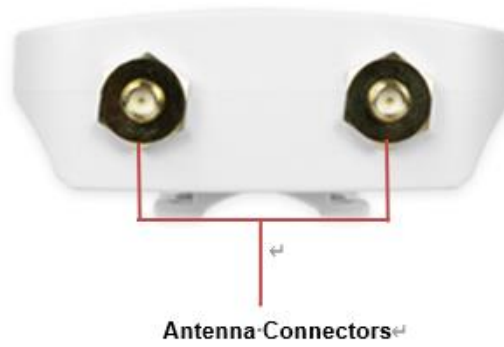
##### Front Side



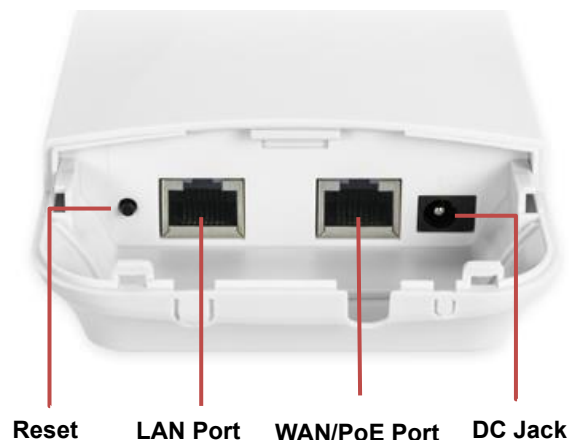
**Rear Side**



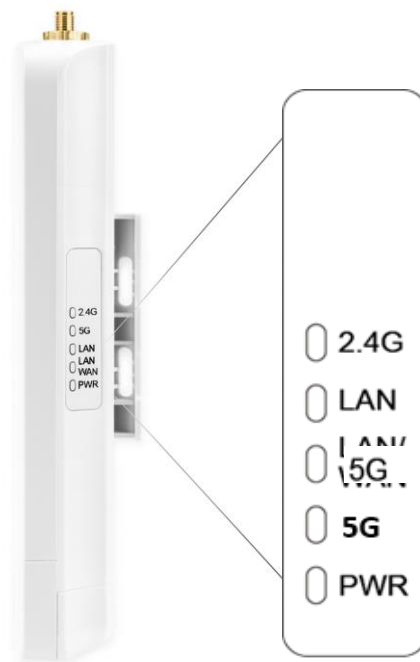
**Top Side**



**Bottom Side**



## LED definition



| LED      | STATUS     | FUNCTION                               |
|----------|------------|----------------------------------------|
| 2.4G     | On (Green) | 2.4 GHz WLAN is on / traffic present.  |
|          | Off        | 2.4 GHz WLAN radios disabled.          |
| LAN      | On (Green) | Link established (10/100/1000 Mbps).   |
| LAN/ WAN | On (Green) | Link established (100/1000/2500 Mbps). |
| 5G       | On (Green) | 5 GHz WLAN is on / traffic present.    |
|          | Off        | 5 GHz WLAN radios disabled.            |
| PWR      | On (Green) | The device is powered on and booting.  |
|          | Off        | Power off.                             |

## Hardware Interface Definition

| Object             | Description                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------|
| Antenna Connectors | 2 × RP-SMA                                                                                                 |
| PoE LAN Port       | 1 × 2.5GBASE-T WAN PoE, auto MDI/MDI-X<br>802.3at PoE+ supported, 48~54VDC In                              |
| Reset Button       | Press and hold the <b>Reset</b> button for 6~10 seconds to return to the factory default setting.          |
| Grounding Terminal | The grounding wire must be attached to this port to prevent damage to the AP from direct lightning strike. |

## Chapter 3. Hardware Installation

Before getting into the device's web UI, user has to check the network setting and configure PC's IP address.

### 3.1 System Requirements

- Broadband Internet Access Service (Cable/xDSL/Ethernet connection)
- One IEEE 802.3at PoE switch (supply power to the WDAP-3600BE)
- PCs with a working Ethernet adapter and an Ethernet cable with RJ45 connectors
- PCs running Windows 98/ME, NT4.0, 2000/XP, Windows Vista / Win 7 / 10 / 11, MAC OS 9 or later, Linux, UNIX or other platforms compatible with **TCP/IP** protocols

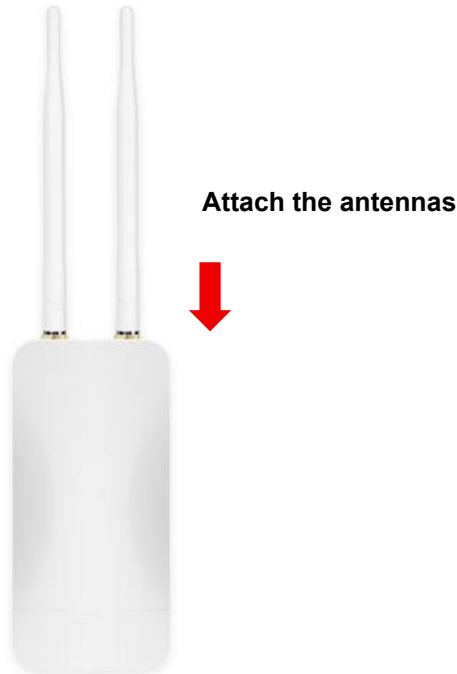


It is recommended to use Internet Explorer 11, Edge, Firefox or Chrome to access the AP.

---

## 3.2 Hardware Installation -- Installing the AP

**Step 1.** Attach the two RP-SMA antennas to the antenna connectors on top of the device.



**Step 2.** Mount the unit on a pole using the provided cable ties.

**Step 3.** Insert the RJ-45 Ethernet cable into the PoE WAN port through the waterproof gland and tighten it securely.

**Step 4.** Plug the other end into a PoE+ (IEEE 802.3at End-span) switch or PoE injector.



**Step 5.** (Optional) Connect a 12 V DC 2 A power adapter if PoE is not used.

**Step 6.** Power LED will light green when the device is on.

### 3.3 Manual Network Setup -- TCP/IP Configuration

The WDAP-3600BE IP address default is [DHCP Client](#) mode and fallback IP is [192.168.1.253](#), and the fallback default subnet mask is 255.255.255.0. These values can be changed as you want. In this guide, we use all the default values for description.

Connect the WDAP-3600BE with your PC by plugging one end of an Ethernet cable in the LAN port of the AP and the other end in the LAN port of PC. The WDAP-3600BE is powered by a PoE switch.

In the following sections, we'll introduce how to install and configure the TCP/IP correctly in Windows 11. And the procedures in other operating systems are similar. First, make sure your Ethernet Adapter is working, and refer to the Ethernet adapter manual if needed.

### 3.3.1 Configuring the IP Address Manually

Summary:

- Set up the TCP/IP Protocol for your PC.
  - Configure the network parameters. The IP address is 192.168.1.xxx (If the default IP address of the WDAP-3600BE is 192.168.1.253, and the DSL router is 192.168.1.254, the "xxx" can be configured to any number from 1 to 252.) and subnet mask is 255.255.255.0.
- 1 Select **Use the following IP address**, and then configure the IP address of the PC.
  - 2 For example, the default IP address of the WDAP-3600BE is 192.168.1.253 and the DSL router is 192.168.1.254, or you may choose from 192.168.1.1 to 192.168.1.252.

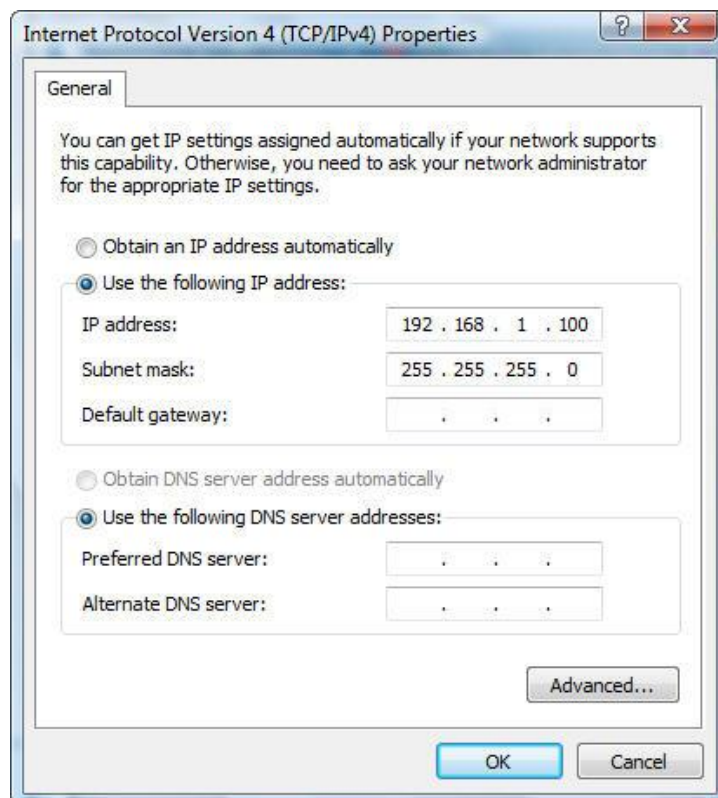
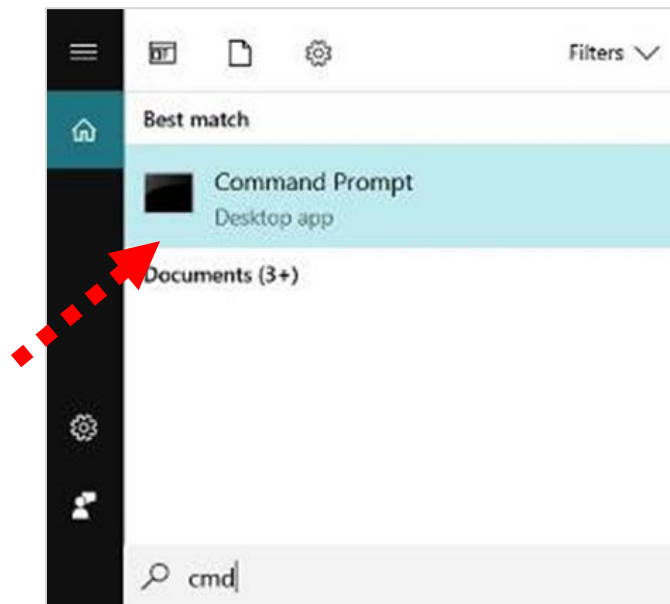


Figure 3-6 TCP/IP Setting

Now click **OK** to save your settings.

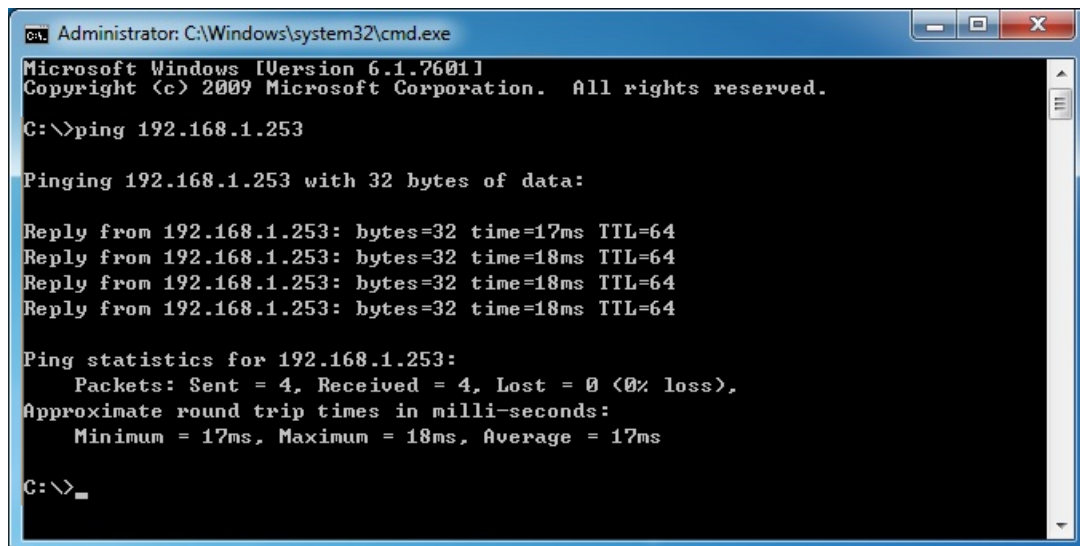
Now, you can run the ping command in the **command prompt** to verify the network connection between your PC and the AP. The following example is in **Windows 11** OS. Please follow the steps below:

1. Click on **Start > Run**.
2. Type "**cmd**" in the Search box.



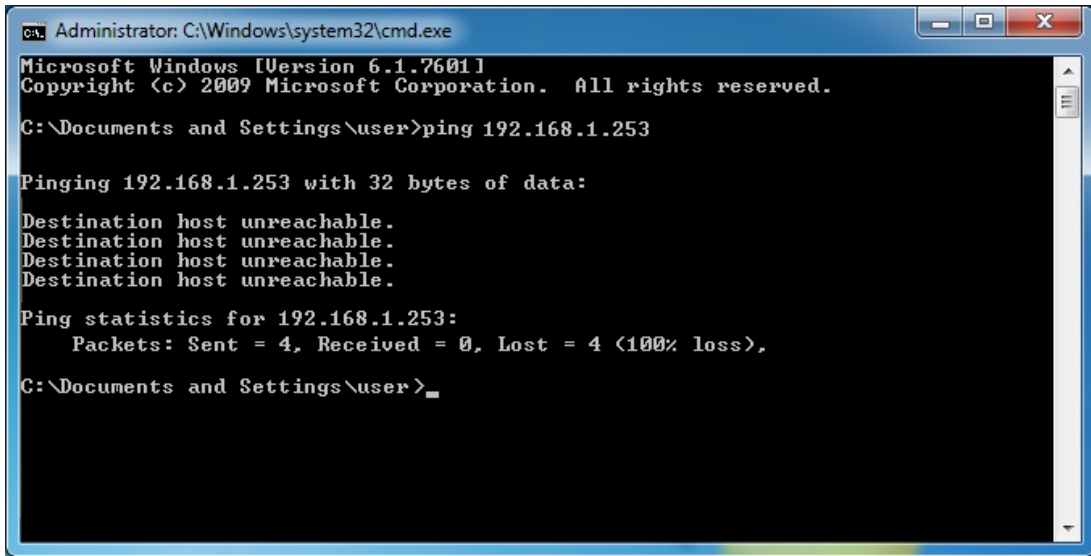
**Figure 3-7** Windows Start Menu

3. Open a command prompt, type ping **192.168.1.253** and then press **Enter**.
  - ◆ If the result displayed is similar to **Figure 3-7**, it means the connection between your PC and the AP has been established well.



**Figure 3-7** Successful Result of Ping Command

- ◆ If the result displayed is similar to **3-8**, it means the connection between your PC and the AP has failed.



```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Documents and Settings\user>ping 192.168.1.253

Pinging 192.168.1.253 with 32 bytes of data:
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.

Ping statistics for 192.168.1.253:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Documents and Settings\user>
```

**Figure 3-8** Failed Result of Ping Command

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your AP. Some firewall software programs may block a DHCP request on newly installed adapters.

## 3.4 Starting Setup in the Web UI

It is easy to configure and manage the AP with the web browser.

**Step 1.** To access the configuration utility, open a web-browser and enter the default IP address <https://192.168.1.253> in the web address field of the browser.

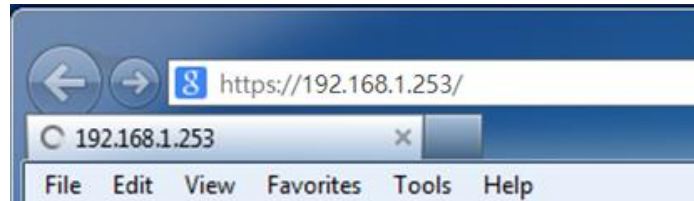


Figure 3-9 Login by Default IP Address

**Step 2.** When the login window pops up, please enter username and password. Please enter the default user name “admin” and password. Refer to Step 3 to determine your initial login password.



Figure 3-10 Login Window

**Step 3.** Default Username: admin

Default Password: ap + the last 6 characters of the MAC ID in lowercase

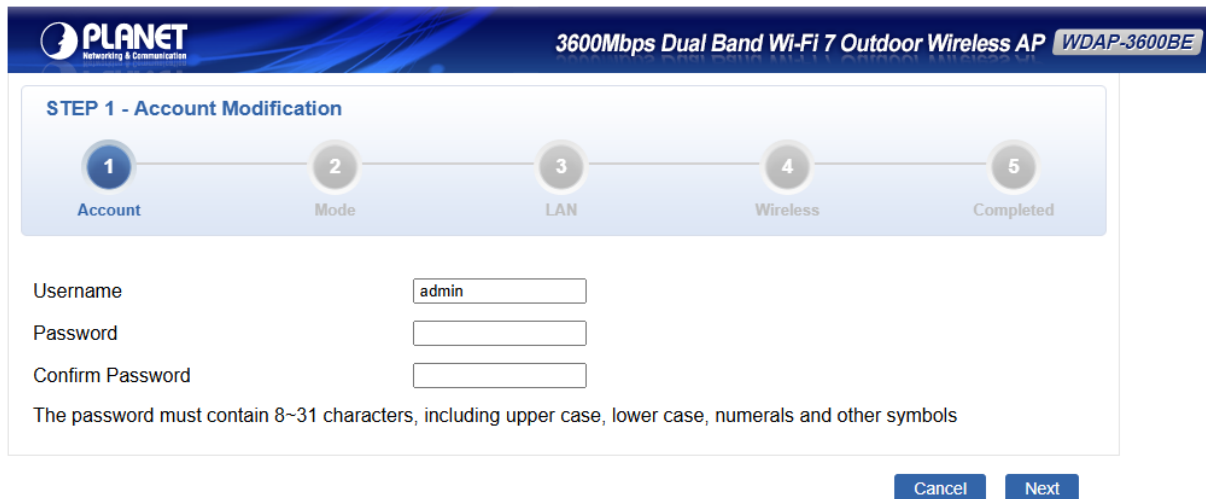
Find the MAC ID on your device label. The default password is "ap" followed by the last six lowercase characters of the MAC ID.



MAC ID: A8F7E0XXXXXX  
Default Password: **apxxxxxx**  
("x" means the last 6 digits of the MAC address.  
All characters should be in lowercase.)

**Step 4.** After logging in, you will be prompted to change the initial username and password to a permanent one.

The Password must contain 8 to 31 characters, including uppercase, lowercase, numerals and other symbols. Please note spaces (blanks) are not accepted.



**PLANET** Networking & Communication

3600Mbps Dual Band Wi-Fi 7 Outdoor Wireless AP WDAP-3600BE

**STEP 1 - Account Modification**

1 Account 2 Mode 3 LAN 4 Wireless 5 Completed

Username

Password

Confirm Password

The password must contain 8~31 characters, including upper case, lower case, numerals and other symbols

Cancel Next



If the above screen does not pop up, it may mean that your web browser has been set to a proxy. Go to Tools menu> Internet Options> Connections> LAN Settings on the screen that appears, uncheck **Using Proxy** and click **OK** to finish it.

## 3.5 Planet Smart Discovery Utility

To easily list the WDAP-3600BE in your Ethernet environment, the Planet Smart Discovery Utility is an ideal solution.

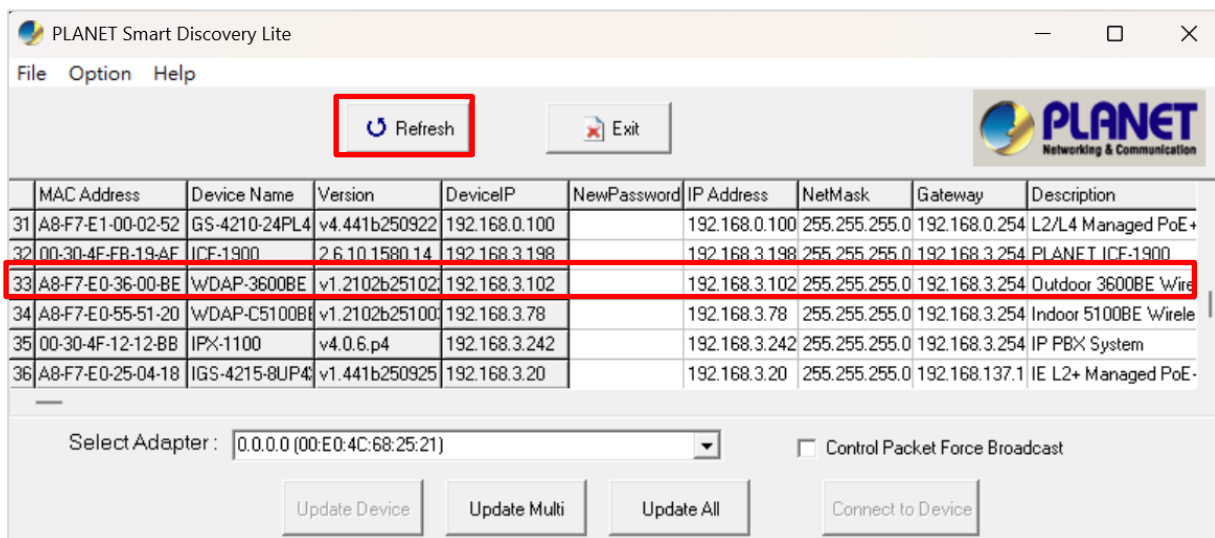
The following installation instructions guide you to running the Planet Smart Discovery Utility.

**Step 1:** Download the **Planet Smart Discovery Utility** to administrator PC.

**Step 2:** Run this utility and the following screen appears.



**Step 3:** Press **“Refresh”** for the current connected devices in the discovery list as shown in the following screen:



**Step 4:** Press **“Connect to Device”** and then the Web login screen appears.



The fields in the white background can be modified directly and then you can apply the new setting by clicking **“Update Device”**.

## Chapter 4. Web-based Management

This chapter delivers a detailed presentation of AP's functionalities and allows you to manage the AP with ease. (The web GUI and topology below uses the WDAP-3600BE as an example.)

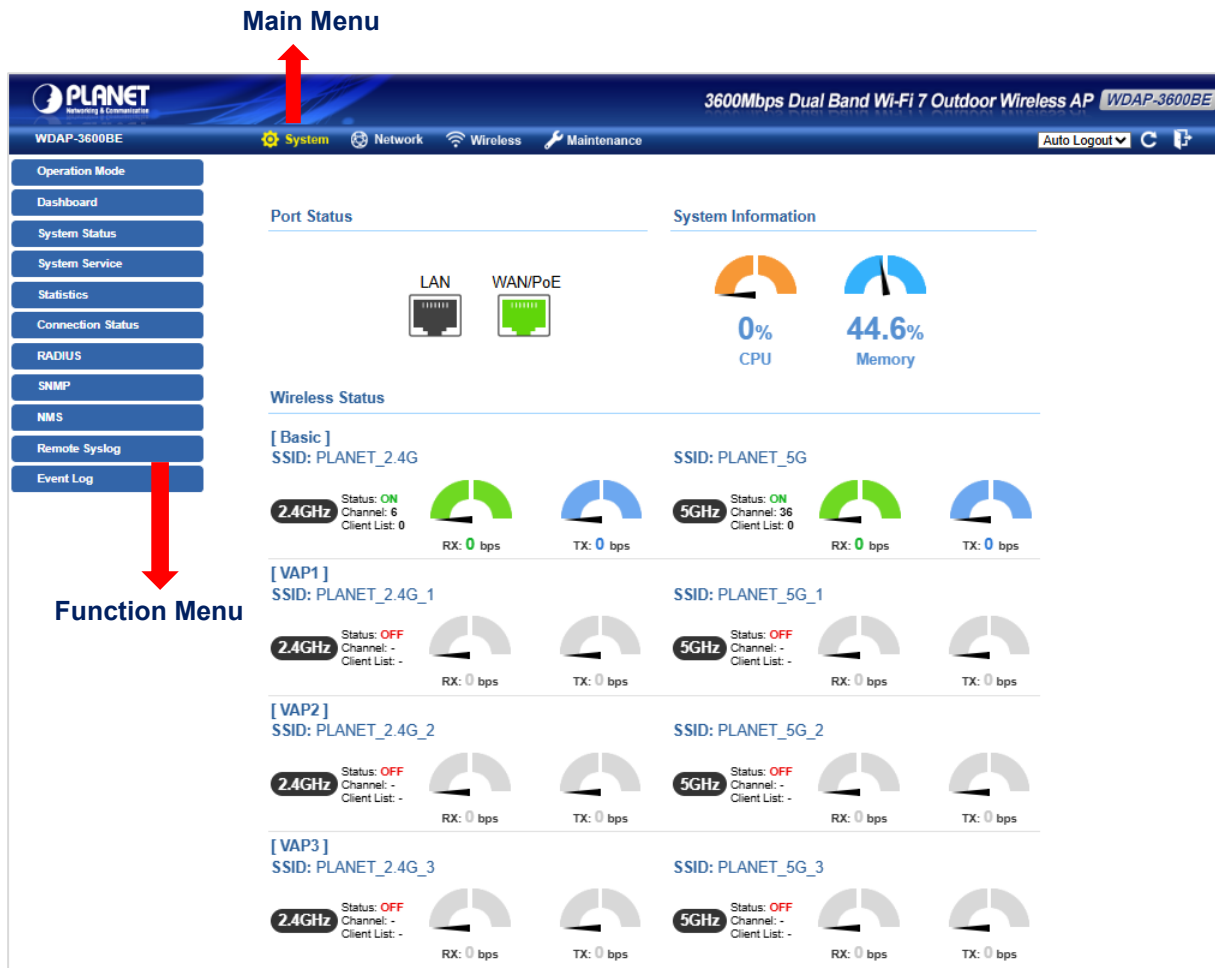


Figure 4-1 Main Web Pag

## Main Menu

The main menu displays the product name, function menu, and main information in the center. Via the Web management, the administrator can set up the device by selecting the functions those listed in the function menu and button as shown in [Figures 4-2 and 4-3](#).

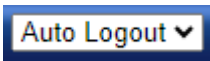


**Figure 4-2: Function Menu**

| Object             | Description                                                                            |
|--------------------|----------------------------------------------------------------------------------------|
| <b>System</b>      | Provides system information of the router.                                             |
| <b>Network</b>     | Provides WAN, LAN and network configuration of the router.                             |
| <b>Security</b>    | Provides firewall and security configuration of the router.                            |
| <b>Wireless</b>    | Provides wireless configuration of the router.                                         |
| <b>Maintenance</b> | Provides firmware upgrade and setting file restore/backup configuration of the router. |

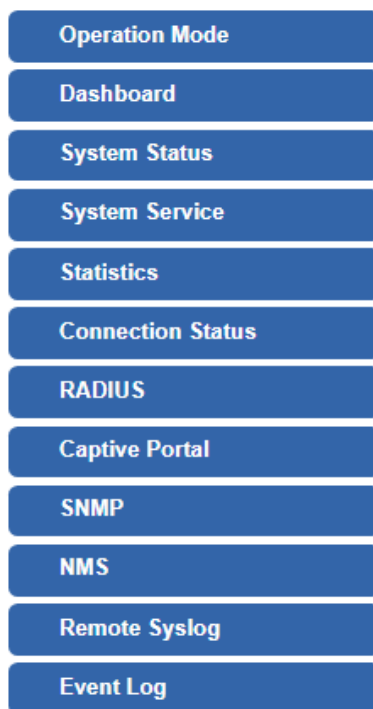


**Figure 4-3: Function Button**

| Object                                                                              | Description                                                                                                                                                                                |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Click the " <b>Refresh button</b> " to refresh the current web page.                                                                                                                       |
|  | Click the " <b>Logout button</b> " to log out the web UI of the router.                                                                                                                    |
|  | Set "Auto Logout" to log out the web UI of the router.<br><div data-bbox="443 1630 635 1877"> Auto Logout ▾<br/> Auto Logout<br/> Off<br/> 3 min<br/> 5 min<br/> 10 min<br/> 15 min </div> |

## 4.1 System

Use the system menu items to display and configure basic administrative details of the router. The System menu shown in [Figure 4-4](#) provides the following features to configure and monitor system.



**Figure 4-4:** System Menu

| Object                   | Description                                                                      |
|--------------------------|----------------------------------------------------------------------------------|
| <b>Operation Mode</b>    | The Wizard will guide the user to configuring the router easily and quickly.     |
| <b>Dashboard</b>         | The overview of system information includes connection, port, and system status. |
| <b>System Status</b>     | Display the status of the system, Device Information, LAN and WAN.               |
| <b>System Service</b>    | Display the status of the system, Secured Service and Server Service             |
| <b>Statistics</b>        | Display statistics information of network traffic of LAN and WAN.                |
| <b>Connection Status</b> | Display the DHCP client table and the ARP table                                  |
| <b>RADIUS</b>            | Enable/Disable RADIUS on routers                                                 |
| <b>Captive Portal</b>    | Enable/Disable Captive Portal on routers                                         |
| <b>SNMP</b>              | Display SNMP system information                                                  |
| <b>NMS</b>               | Enable/Disable NMS on routers                                                    |
| <b>Remote Syslog</b>     | Enable Captive Portal on routers                                                 |
| <b>Event Log</b>         | Display Event Log information                                                    |

### 4.1.1 Operation Mode

The Wizard guides you to configuring the WDAP-3600BE in a different mode, including AP, gateway, repeater and WISP modes. The wizard also supports MESH function set up.

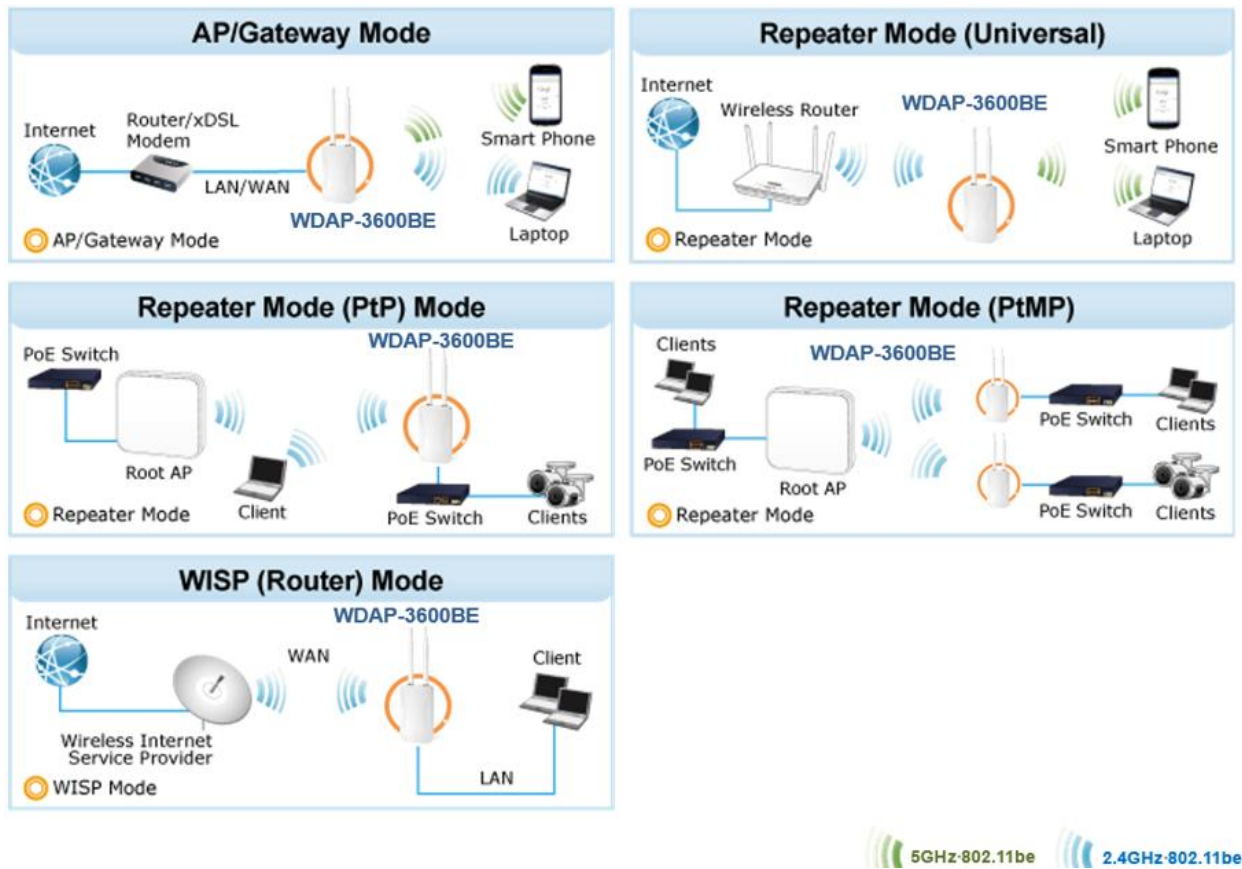


Figure 4-5 Operation Mode



The default operation mode is AP Mode.

### 4.1.2 Gateway Mode (Router)

Click **"Wizard"** → **"Gateway Mode"** and the following page will be displayed. This section allows you to configure the Gateway mode.

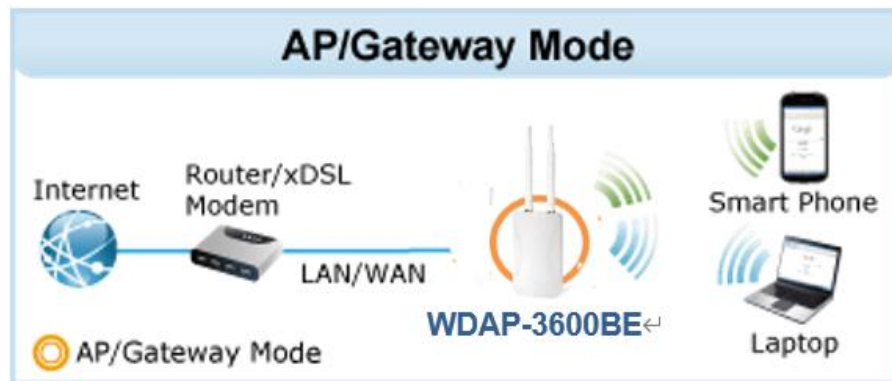


Figure 4-7: Setup Wizard

#### Step 1: Operation Mode

Select operation Mode.



## Step 2: LAN Interface

Set up the IP Address and Subnet Mask for the LAN interface as shown in Figure 5-5.

STEP 2 - Network Interface LAN

1

Mode

2

LAN

3

WAN

4

Wireless Connection

5

Wireless

6

Security

7

Completed

IP Address

192.168.1.253

Netmask

255.255.255.0

DHCP Server

☒

Start IP Address

192.168.100.100

Maximum DHCP Users

101

Cancel

Previous

Next

**Figure 4-8:** Setup Wizard – LAN Configuration

| Object                    | Description                                                                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IP Address</b>         | Enter the IP address of your router. The default is 192.168.1.1.                                                                                                                            |
| <b>Subnet Mask</b>        | An address code that determines the size of the network. Normally use 255.255.255.0 as the subnet mask.                                                                                     |
| <b>DHCP Server</b>        | By default, the DHCP Server is enabled.<br>If user needs to disable the function, please uncheck the box.                                                                                   |
| <b>Start IP Address</b>   | By default, the start IP address is 192.168.1.100.<br>Please do not set it to the same IP address of the router.                                                                            |
| <b>Maximum DHCP Users</b> | By default, the maximum DHCP users are 101, which means the router will provide DHCP client with IP address from 192.168.1.100 to 192.168.1.200 when the start IP address is 192.168.1.100. |
| <b>Next</b>               | Press this button to the next step.                                                                                                                                                         |
| <b>Cancel</b>             | Press this button to undo any changes made locally and revert to previously saved values.                                                                                                   |

## Step 3: WAN Interface

The router supports two access modes on the WAN side shown in [Figure 4-9](#)

**Figure 4-9:** Setup Wizard – WAN 1 Configuration

### Mode 1 -- Static IP

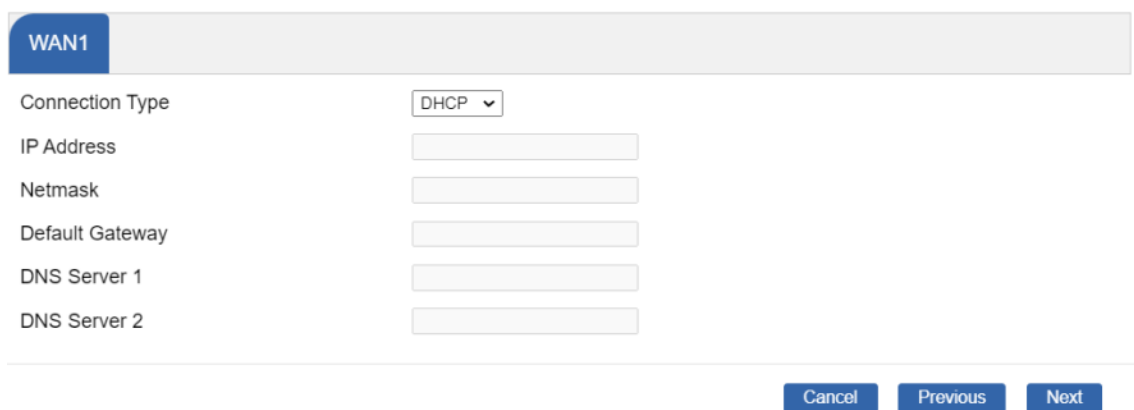
Select **Static IP Address** if all the Internet port's IP information is provided to you by your ISP. You will need to enter the **IP Address**, **Netmask**, **Default Gateway** and **DNS Server** provided to you by your ISP. Each IP address entered in the fields must be in the appropriate IP form, which are four octets separated by a dot (x.x.x.x). The router will not accept the IP address if it is not in this format. The setup is shown in [Figure 4-10](#).

**Figure 4-10:** WAN Interface Setup – Static IP Setup

| Object                 | Description                                                                               |
|------------------------|-------------------------------------------------------------------------------------------|
| <b>IP Address</b>      | Enter the IP address assigned by your ISP.                                                |
| <b>Netmask</b>         | Enter the Netmask assigned by your ISP.                                                   |
| <b>Default Gateway</b> | Enter the Gateway assigned by your ISP.                                                   |
| <b>DNS Server</b>      | The DNS server information will be supplied by your ISP.                                  |
| <b>Next</b>            | Press this button for the next step.                                                      |
| <b>Previous</b>        | Press this button for the previous step.                                                  |
| <b>Cancel</b>          | Press this button to undo any changes made locally and revert to previously saved values. |

## Mode 2 -- DHCP Client

Select DHCP Client to obtain IP Address information automatically from your ISP. The setup is shown in [Figure 4-11](#).



WAN1

Connection Type:

IP Address:

Netmask:

Default Gateway:

DNS Server 1:

DNS Server 2:

Cancel Previous Next

**Figure 4-11: WAN Interface Setup – DHCP Setup**

## Step 4: Network Interface Wireless Connection

Set up the Security Settings as shown in Figure 5-9.

STEP 4 - Network Interface Wireless Connection

1

2

3

4

5

6

7

Mode

LAN

WAN

Wireless Connection

Wireless

Security

Completed

Mesh Wifi Mode

Node

Select Radio

Use 5GHz Radio

Mesh ID

PLANET-Mesh

Scan

Encryption

WPA3 Personal

Passphrase

84117341

Cancel

Previous

Next

Figure 4-12: Wireless Connection- set up

| Object                 | Description                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mesh Wi-Fi Mode</b> | Select the Mesh role for Master or Node to enable Mesh function.<br>The default configuration is disabled.                                                                                                                                                                                                                                                                      |
| <b>Select Radio</b>    | Select 2.4GHz or 5GHz for MESH ID radio.                                                                                                                                                                                                                                                                                                                                        |
| <b>Mesh ID</b>         | Enter the Mesh ID, just like SSID, or use the <b>Scan</b> button to discover Mesh ID from the Master/Node Mesh AP.                                                                                                                                                                                                                                                              |
| <b>Encryption</b>      | Selector is for the encryption for the sake of security.<br><div> WPA3 Personal Open WPA3 Personal WPA2/WPA3 Personal WPA2 Personal (AES) WPA2 Personal (TKIP) WPA2 Personal (TKIP+AES) WPA/WPA2 Personal (AES) WPA/WPA2 Personal (TKIP) WPA/WPA2 Personal (TKIP+AES) WPA Personal (AES) WPA Personal (TKIP) WPA Personal (TKIP+AES) WPA2 Enterprise WPA/WPA2 Enterprise </div> |
| <b>Passphrase</b>      | Enter the password for Mesh ID; the default configuration is null.                                                                                                                                                                                                                                                                                                              |
| <b>Next</b>            | Press this button for the next step.                                                                                                                                                                                                                                                                                                                                            |
| <b>Previous</b>        | Press this button for the previous step.                                                                                                                                                                                                                                                                                                                                        |
| <b>Cancel</b>          | Press this button to undo any changes made locally and revert to previously saved values.                                                                                                                                                                                                                                                                                       |

## Step 5: Network Interface Wireless

Set up the Security Settings as shown in [Figure 4-13](#).

STEP 5 - Network Interface Wireless

1

2

3

4

5

6

7

Mode

LAN

WAN

Wireless Connection

Wireless

Security

Completed

2.4G WiFi Status

☒ Enable
 ☐ Disable

SSID

PLANET\_2.4G

Hide SSID

☐ Enable
 ☒ Disable

Bandwidth

11 AX 20/40MHz ▾

Channel

6 ▾

Encryption

WPA/WPA2 Personal (TKIP+AES) ▾

Passphrase

12345678

5G WiFi Status

☒ Enable
 ☐ Disable

SSID

PLANET\_5G

Hide SSID

☐ Enable
 ☒ Disable

Bandwidth

11 AX 20/40/80MHz ▾

Channel

36 ▾

Encryption

WPA/WPA2 Personal (TKIP+AES) ▾

Passphrase

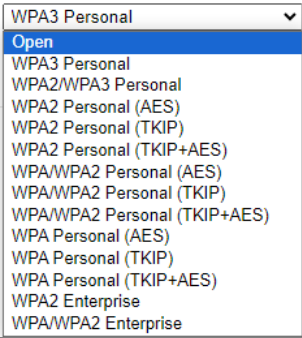
12345678

Cancel

Previous

Next

**Figure 4-13:** Wireless Setup

| Object                      | Description                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>2.4G/5G Wi-Fi Status</b> | Enable or Disable 2.4GHz/5GHz radio.                                                                                                          |
| <b>SSID</b>                 | Enter the SSID ID name. The default configuration is PLANET_2.4G/PLANET_5G.                                                                   |
| <b>Bandwidth</b>            | Select bandwidth for 2.4GHz/5GHz                                                                                                              |
| <b>Channel</b>              | Select channel for 2.4GHz/5GHz                                                                                                                |
| <b>Encryption</b>           | <p>Selector is the encryption for the sake of security.</p>  |
| <b>Passphrase</b>           | Enter the password for SSID; the default configuration is null.                                                                               |
| <b>Next</b>                 | Press this button for the next step.                                                                                                          |
| <b>Previous</b>             | Press this button for the previous step.                                                                                                      |
| <b>Cancel</b>               | Press this button to undo any changes made locally and revert to previously saved values.                                                     |

## Step 6: Security Setting

Set up the Security Settings as shown in Figure 4-14.

STEP 6 - Security Settings

1

Mode

2

LAN

3

WAN

4

Wireless Connection

5

Wireless

6

Security

7

Completed

SPI Firewall
Block SYN Flood
Block ICMP Flood
Block WAN Ping
Remote Management

☒ Enable ☐ Disable
☒ Enable ☐ Disable
☐ Enable ☒ Disable
☐ Enable ☒ Disable
☐ Enable ☒ Disable

Cancel
Previous
Next

**Figure 4-14:** Setup Wizard –Security Setting

| Object                   | Description                                                                                                                                                                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPI Firewall</b>      | <p>The SPI Firewall prevents attack and improper access to network resources.</p> <p>The default configuration is enabled.</p>                                                                                                                          |
| <b>Block SYN Flood</b>   | <p>SYN Flood is a popular attack way. DoS and DDoS are TCP protocols. Hackers like using this method to make a fake connection that involves the CPU, memory, and so on.</p> <p>The default configuration is enabled.</p>                               |
| <b>Block ICMP Flood</b>  | <p>ICMP is kind of a pack of TCP/IP; its important function is to transfer simple signal on the Internet. There are two normal attack ways which hackers like to use, Ping of Death and Smurf attack.</p> <p>The default configuration is disabled.</p> |
| <b>Block WAN Ping</b>    | <p>Enable the function to allow the Ping access from the Internet network.</p> <p>The default configuration is disabled.</p>                                                                                                                            |
| <b>Remote Management</b> | <p>Enable the function to allow the web server access of the router from the Internet network.</p> <p>The default configuration is disabled.</p>                                                                                                        |
| <b>Next</b>              | Press this button for the next step.                                                                                                                                                                                                                    |
| <b>Previous</b>          | Press this button for the previous step.                                                                                                                                                                                                                |
| <b>Cancel</b>            | Press this button to undo any changes made locally and revert to previously saved values.                                                                                                                                                               |

## Step 7: Setup Completed

The page will show the summary of LAN, WAN and Security settings as shown in Figure 4-15.

STEP 7 - Setup Completed

1

2

3

4

5

6

7

Mode

LAN

WAN

Wireless Connection

Wireless

Security

Completed

Operation Mode

Gateway Mode

LAN

Enable: Static IP: 192.168.1.253 / 255.255.255.0

WAN

Enable: DHCP

2.4G WiFi

Enable: ON SSID: PLANET\_2.4G Bandwidth: 40MHz Channel: 6  
 Encryption: WPA/WPA2 Personal (TKIP+AES) Hide SSID: Disable

5G WiFi

Enable: ON SSID: PLANET\_5G Bandwidth: 80MHz Channel: 36  
 Encryption: WPA/WPA2 Personal (TKIP+AES) Hide SSID: Disable

Security Settings

SPI Firewall: ON  
 Block SYN Flood: ON  
 Block ICMP Flood: OFF  
 Block WAN Ping: OFF  
 Remote Management: OFF

Previous

Finish

**Figure 4-15:** Setup Wizard – Setup Completed

| Object          | Description                                  |
|-----------------|----------------------------------------------|
| <b>Finish</b>   | Press this button to save and apply changes. |
| <b>Previous</b> | Press this button for the previous step.     |

### 4.1.3 Dashboard

The dashboard provides an overview of system information including connection, port, and system status as shown in Figure 4-16.

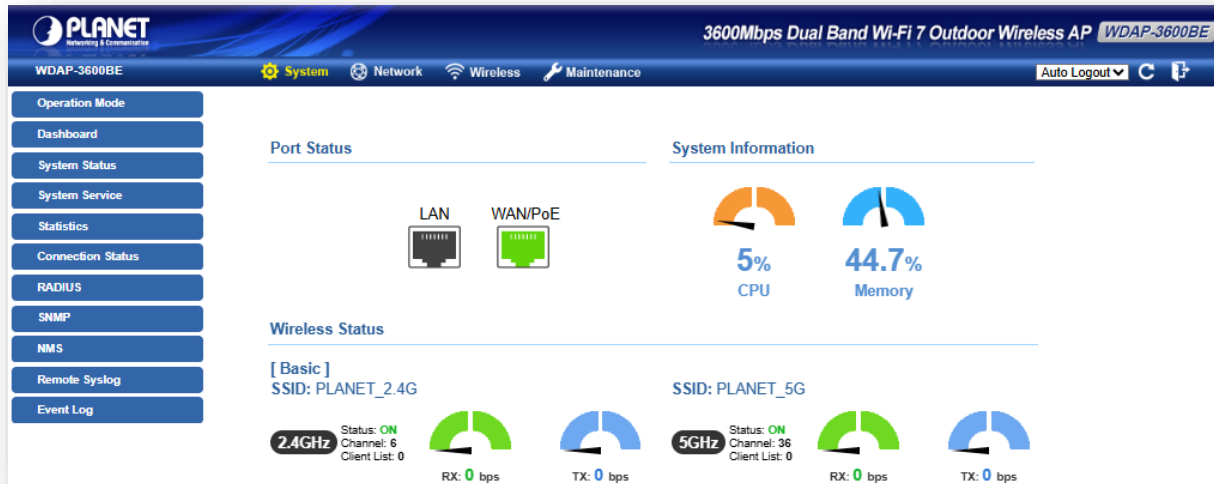


Figure 4-16: Dashboard

#### Port Status

| Object | Description                  |
|--------|------------------------------|
|        | Ethernet port is in use.     |
|        | Ethernet port is not in use. |

#### Wireless Status

| Object                 | Description             |
|------------------------|-------------------------|
| RX: 0 bps<br>TX: 0 bps | Wireless is in use.     |
| RX: 0 bps<br>TX: 0 bps | Wireless is not in use. |

#### System Information

| Object | Description              |
|--------|--------------------------|
| CPU    | Display the CPU loading  |
| Memory | Display the memory usage |

#### 4.1.4 System Status

This page displays system information as shown in [Figure 4-17](#).

| Device Information |                               |
|--------------------|-------------------------------|
| Model Name         | WDAP-3600BE                   |
| Firmware Version   | v1.2102b251022                |
| Serial Number      | SWTESTAP3600BE                |
| Region             | FCC                           |
| Current Time       | 2025-11-05 Wednesday 15:43:41 |
| Running Time       | 0 day, 02:30:20               |

| LAN             |                   |
|-----------------|-------------------|
| MAC Address     | A8:F7:E0:36:00:BE |
| Connection Type | DHCP              |
| IP Address      | 192.168.3.102     |
| Netmask         | 255.255.255.0     |
| Gateway         | 192.168.3.254     |

| 2.4GHz WiFi |                   |
|-------------|-------------------|
| Status      | ON                |
| SSID        | PLANET_2.4G       |
| Channel     | 6                 |
| Encryption  | Open              |
| MAC Address | A8:F7:E0:36:00:C0 |

| 5GHz WiFi   |                   |
|-------------|-------------------|
| Status      | ON                |
| SSID        | PLANET_5G         |
| Channel     | 36                |
| Encryption  | Open              |
| MAC Address | A8:F7:E0:36:00:C1 |

**Figure 4-17:** Status

### 4.1.5 System Service

This page displays the number of packets that pass through the router on the WAN and LAN. The statistics are shown in [Figure 4-18](#).

| Server Service |            |                    |                   |
|----------------|------------|--------------------|-------------------|
| #              | Action     | Service            | Status            |
| 1              | ✓ Enabled  | DHCP Service       | DHCP Table: 5     |
| 2              | ✗ Disabled | DDNS Service       | Not enabled       |
| 3              | ✗ Disabled | Quality of Service |                   |
| 4              | ✗ Disabled | RADIUS Service     |                   |
| 5              | ✗ Disabled | Captive Portal     |                   |
| 6              | ✓ Enabled  | 2.4G WiFi          | SSID: PLANET_2.4G |
| 7              | ✓ Enabled  | 5G WiFi            | SSID: PLANET_5G   |

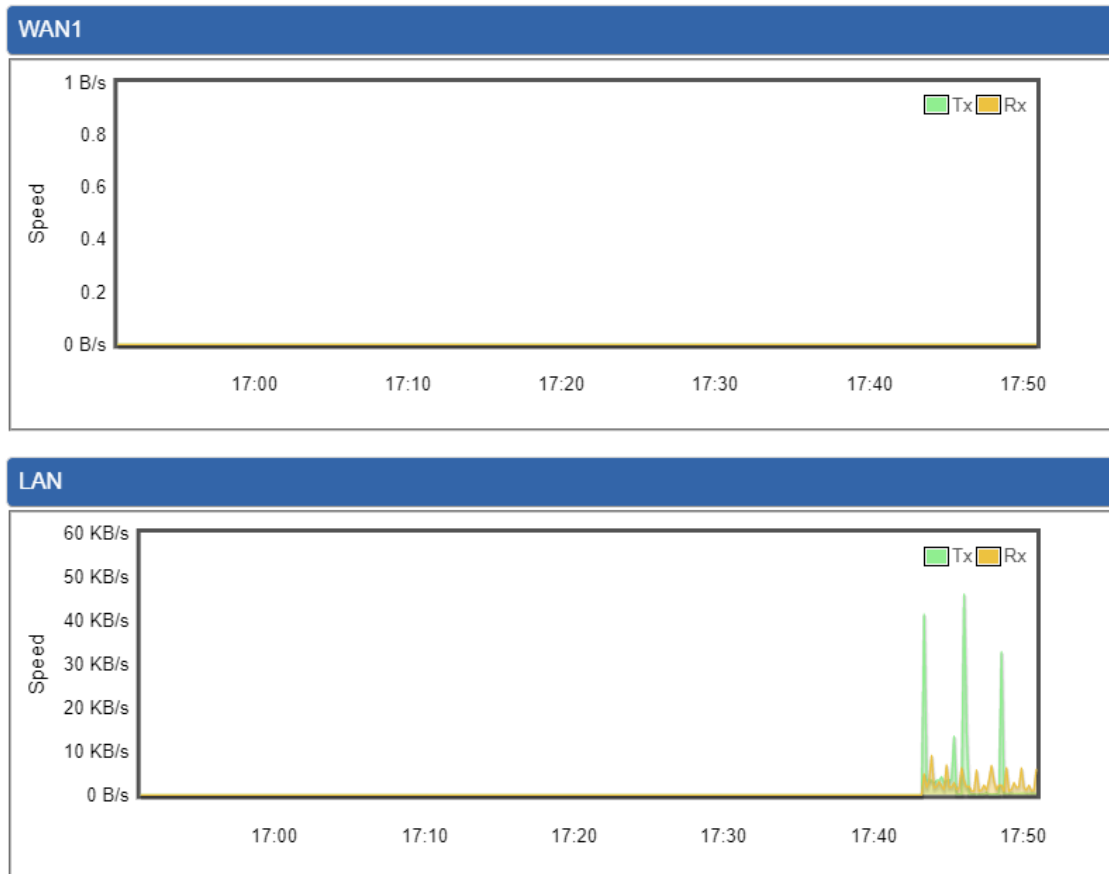
  

| Secured Server Service |            |               |                                        |
|------------------------|------------|---------------|----------------------------------------|
| #                      | Action     | Service       | Status                                 |
| 1                      | ✓ Enabled  | Cybersecurity | TLS 1.1, TLS 1.2, TLS 1.3              |
| 2                      | ✓ Enabled  | SPI Firewall  |                                        |
| 3                      | ✗ Disabled | MAC Filtering | ( Active / Maximum Entries )<br>0 / 32 |
| 4                      | ✗ Disabled | IP Filtering  | ( Active / Maximum Entries )<br>0 / 32 |
| 5                      | ✗ Disabled | Web Filtering | ( Active / Maximum Entries )<br>0 / 32 |

**Figure 4-18: Service**

### 4.1.6 Statistics

This page displays the number of packets that pass through the router on the WAN and LAN. The statistics are shown in [Figure 4-19](#).



**Figure 4-19: Statistics**

### 4.1.7 Connection Status

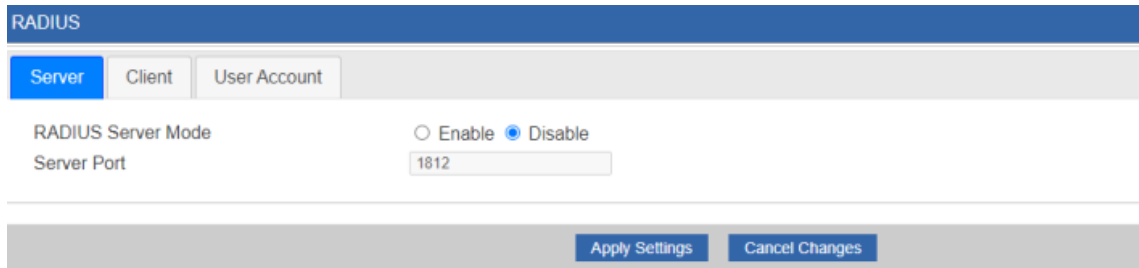
The page will show the DHCP Table and ARP Table. The status is shown in [Figure 4-20](#).

| DHCP Table    |                   |             |                 |
|---------------|-------------------|-------------|-----------------|
| Name          | IP Address        | MAC Address | Expiration Time |
|               |                   |             |                 |
| ARP Table     |                   |             |                 |
| IP Address    | MAC Address       | ARP Type    |                 |
| 192.168.1.11  | 00:30:4f:9e:b7:df | dynamic     |                 |
| 192.168.1.188 | 00:05:1b:c5:51:14 | dynamic     |                 |
| 192.168.1.239 | a8:f7:e0:6a:a3:a4 | dynamic     |                 |
| 192.168.1.1   | 00:e0:53:00:12:01 | dynamic     |                 |

**Figure 4-20:** Connection Status

## 4.1.8 RADIUS

Remote Authentication Dial-In User Service (RADIUS) is a security authentication client/server protocol that supports authentication, authorization and accounting. The RADIUS Server page is shown in [Figure 4-21](#).



**Figure 4-21: RADIUS**

| Object             | Description                                                                      |
|--------------------|----------------------------------------------------------------------------------|
| <b>RADIUS</b>      | Disable or enable the RADIUS function.<br>The default configuration is disabled. |
| <b>Server Port</b> | Default: 1812                                                                    |

## 4.1.9 Captive Portal

Captive portal service gives the ability to organize a public (or guest) Wi-Fi zone with user authorization. A captive portal is the authorization page that forcibly redirects users who connect to the public network before accessing the Internet. The Captive portal page is shown in Figure 4-22.

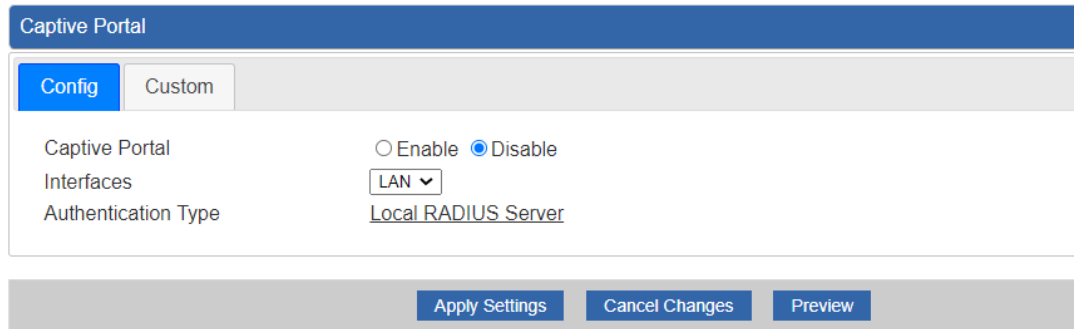


Figure 4-22: Captive Portal

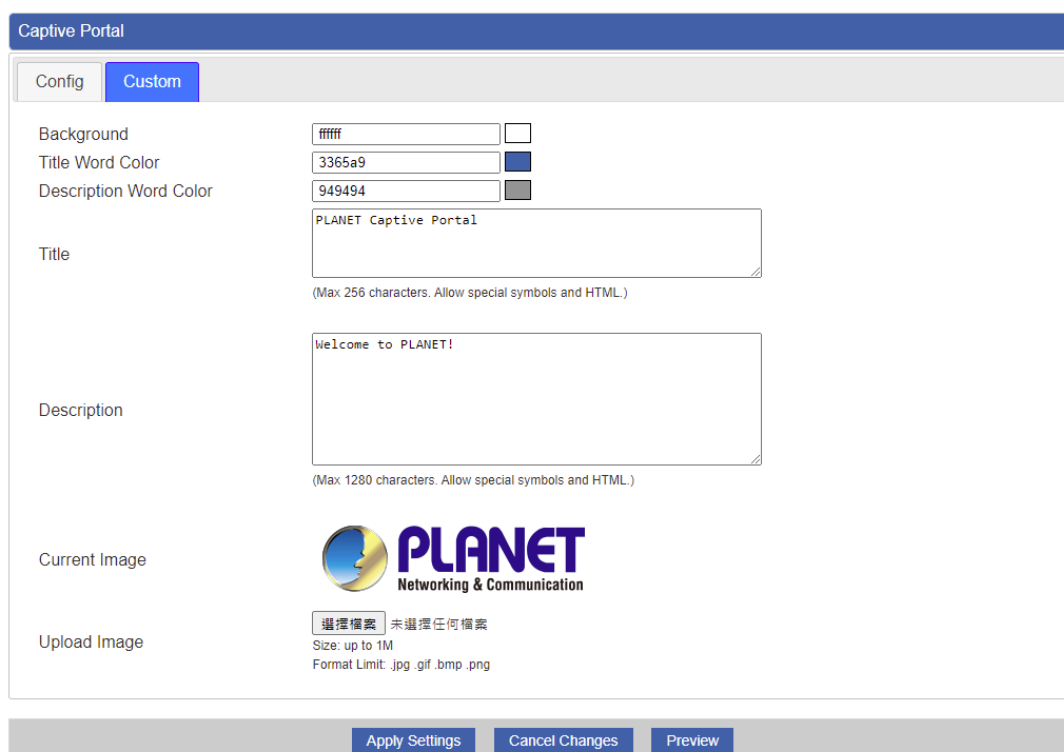
| Object                | Description                                                                              |
|-----------------------|------------------------------------------------------------------------------------------|
| <b>Captive Portal</b> | Disable or enable the Captive Portal function.<br>The default configuration is disabled. |



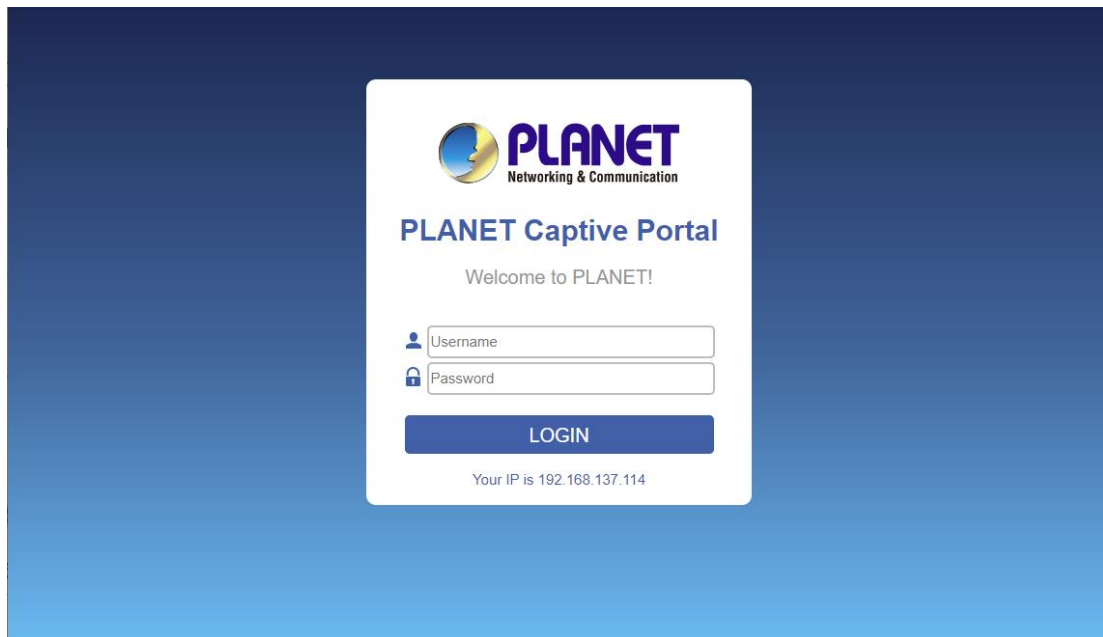
Captive Portal function can be only configured at **Gateway Mode**

## Customizing the Custom Captive Portal Web Page

1. Click **Custom**



2. After configure and upload image, click **Apply Settings** button
3. Click **Preview** to check the Captive Portal login page



## 4.1.10 SNMP

This page provides SNMP setting of the router as shown in Figure 4-23.

SNMP

SNMP

☒ Enable
 ☐ Disable

SNMP Versions

SNMP v1,v2c

Read Community

public

Write Community

private

Engine ID

SNMP v3 Security Level

AuthPriv

SNMP v3 User Name

SNMP v3 Auth Protocol

MD5

SNMP v3 Auth Password

SNMP v3 Privacy Protocol

DES

SNMP v3 Privacy Password

System Identification

System Name

WDAP-C3000AX

System Description

System Location

Default Location

System Contact

Default Contact

SNMP Trap Receiver Configuration

SNMP Trap

☐ Enable
 ☒ Disable

SNMP Trap Destination 1

SNMP Trap Destination 2

Apply Settings

Cancel Changes

**Figure 4-23: SNMP**

| Object                      | Description                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>Enable SNMP</b>          | Disable or enable the SNMP function.<br>The default configuration is enabled.             |
| <b>Read/Write Community</b> | Allows entering characters for SNMP Read/Write Community of the router.                   |
| <b>System Name</b>          | Allows entering characters for system name of the router.                                 |
| <b>System Location</b>      | Allows entering characters for system location of the router.                             |
| <b>System Contact</b>       | Allows entering characters for system contact of the router.                              |
| <b>Apply Settings</b>       | Press this button to save and apply changes.                                              |
| <b>Cancel Changes</b>       | Press this button to undo any changes made locally and revert to previously saved values. |

## 4.1.11 NMS

The CloudNMS Server – Internet screens – is shown in Figure 4-24.

**NMS Configuration**

NMS: PLANET CloudNMS Server - Internet ▼

Email:

Username:

Connection Status: Not enabled

Apply Settings Cancel Changes Unbind

Figure 4-24: CloudNMS Server

| Object            | Description                                        |
|-------------------|----------------------------------------------------|
| Email             | The email is registered on CloudNMS Server         |
| Password          | The password of your CloudNMS account              |
| Connection Status | Indicates the status of connecting CloudNMS Server |

### Step 1: Enable the Service

Go to the NMS Configuration page of the WDAP-3600BE and enable PLANET CloudNMS Server – Internet feature.

System Network Wireless Maintenance

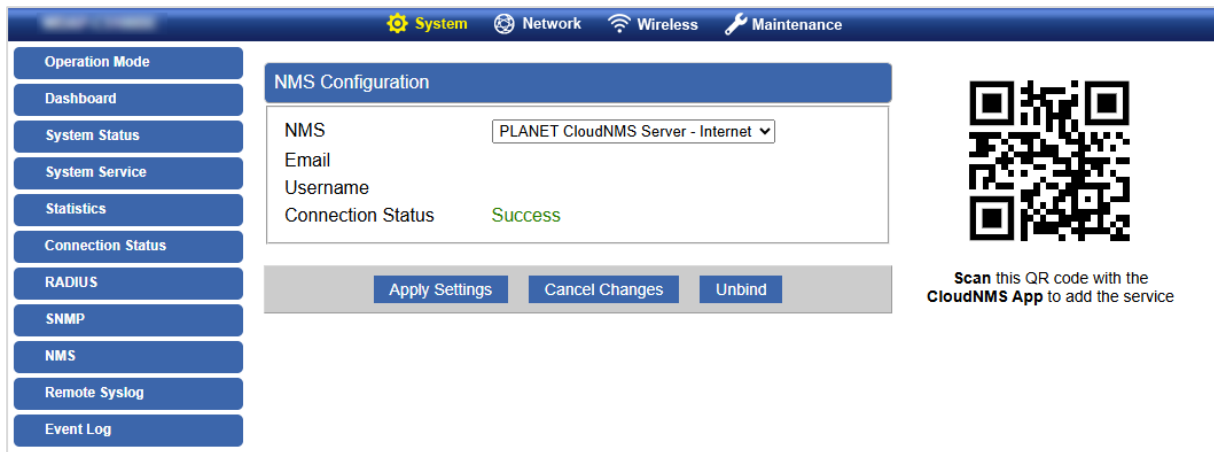
Operation Mode Dashboard System Status System Service Statistics Connection Status RADIUS SNMP NMS Remote Syslog Event Log

**NMS Configuration**

NMS: Disable ▼

PLANET CloudNMS Server - Internet

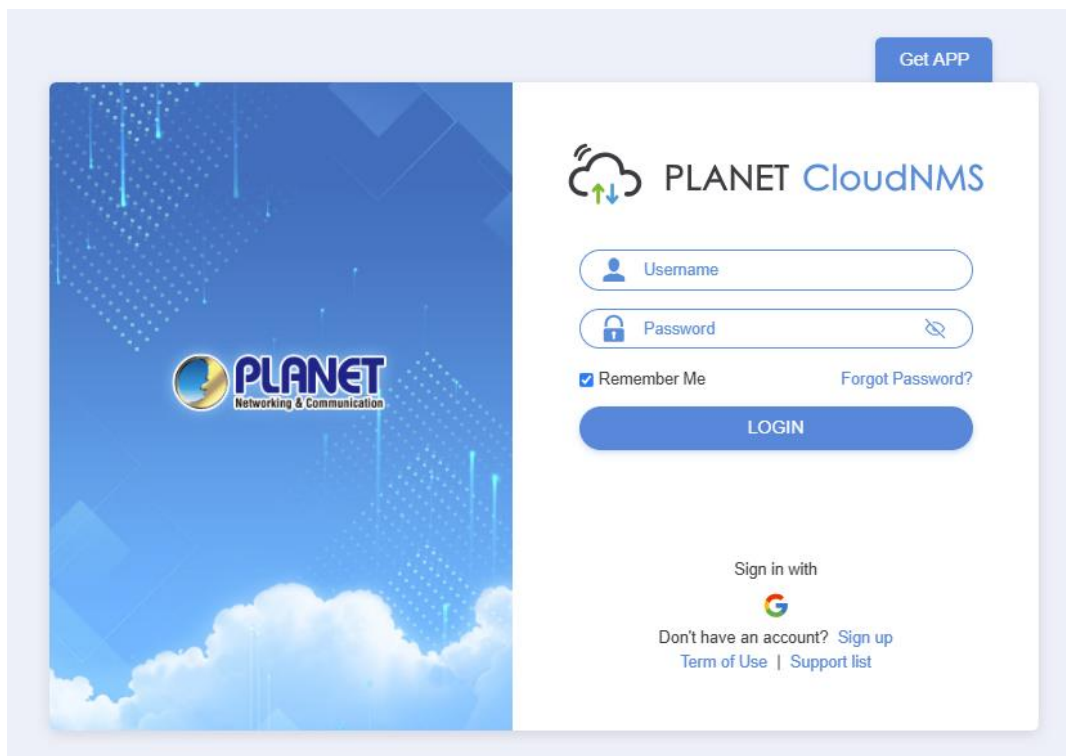
Apply Settings Cancel Changes



## Step 2: Access the CloudViewer Platform

Open a browser and go to <https://www.cloudnms.planet.com.tw>,  
or download the PLANET CloudNMS App from the App Store or Google Play.

### Web:



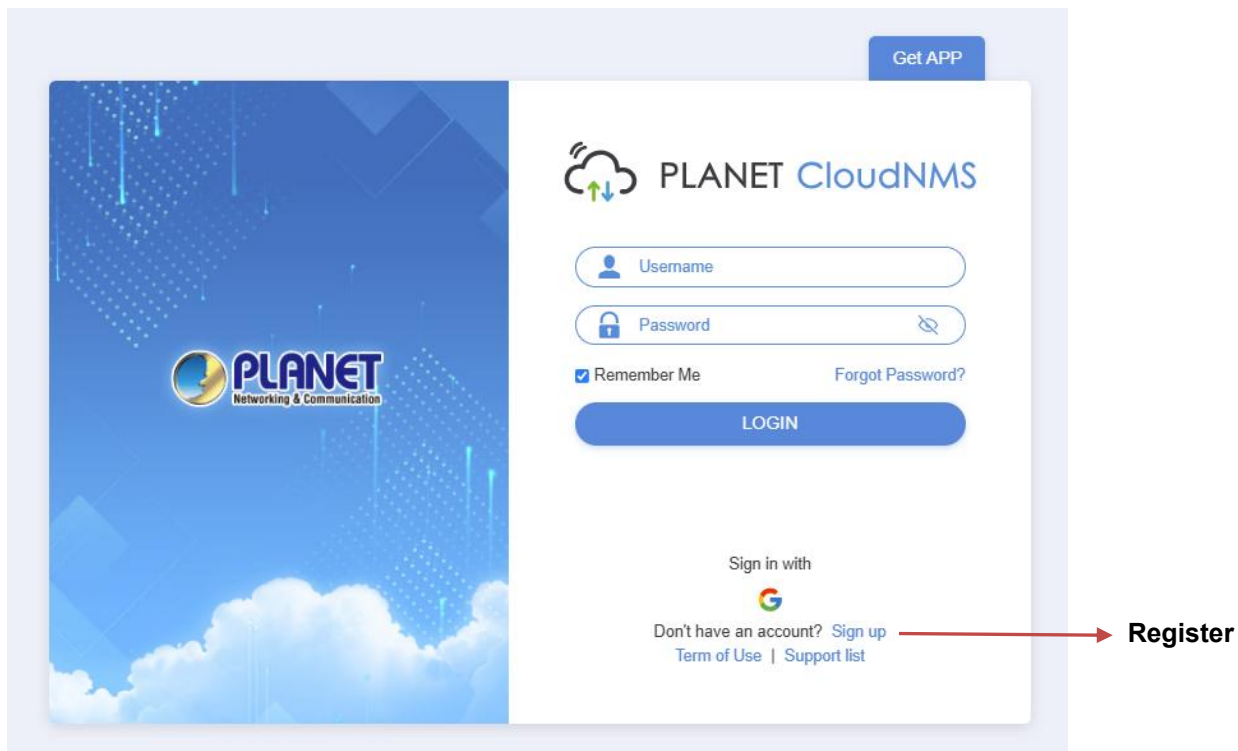
### App:



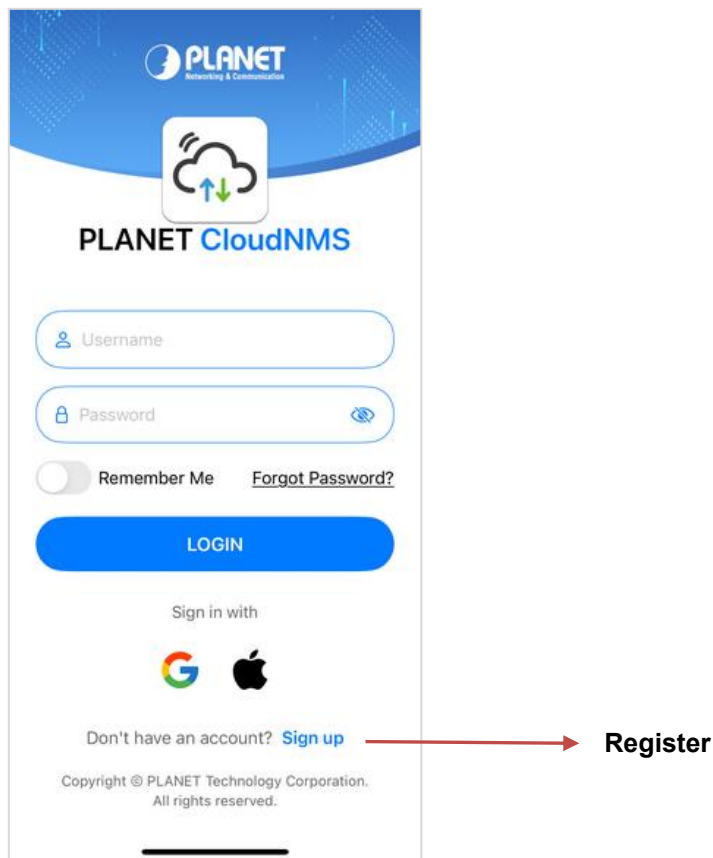
**Step 3: Register an Account**

Launch the PLANET CloudNMS Platform or App, and log in with your CloudNMS account.

If you don't have an account, register one with your e-mail address first, or use SSO.

**Web:**

The web login page features a blue header with the PLANET logo and a 'Get APP' button. The main content area has a blue background with a cloud and network icon on the left. On the right, there is a white login form with fields for 'Username' and 'Password', a 'Remember Me' checkbox, and a 'Forgot Password?' link. A blue 'LOGIN' button is below the form. At the bottom, there is a 'Sign in with' section with a Google icon and a 'Sign up' link. A red arrow points from the 'Sign up' link to the word 'Register'.

**App:**

The app login page has a blue header with the PLANET logo. The main content area has a white background with a cloud and network icon at the top. Below the icon is the text 'PLANET CloudNMS'. There are fields for 'Username' and 'Password', a 'Remember Me' toggle, and a 'Forgot Password?' link. A blue 'LOGIN' button is below the form. At the bottom, there is a 'Sign in with' section with Google and Apple icons. Below this is a 'Sign up' link with a red arrow pointing to the word 'Register'. At the very bottom, there is a copyright notice: 'Copyright © PLANET Technology Corporation. All rights reserved.'

**Step 4: Bind the Device****Via Web:**

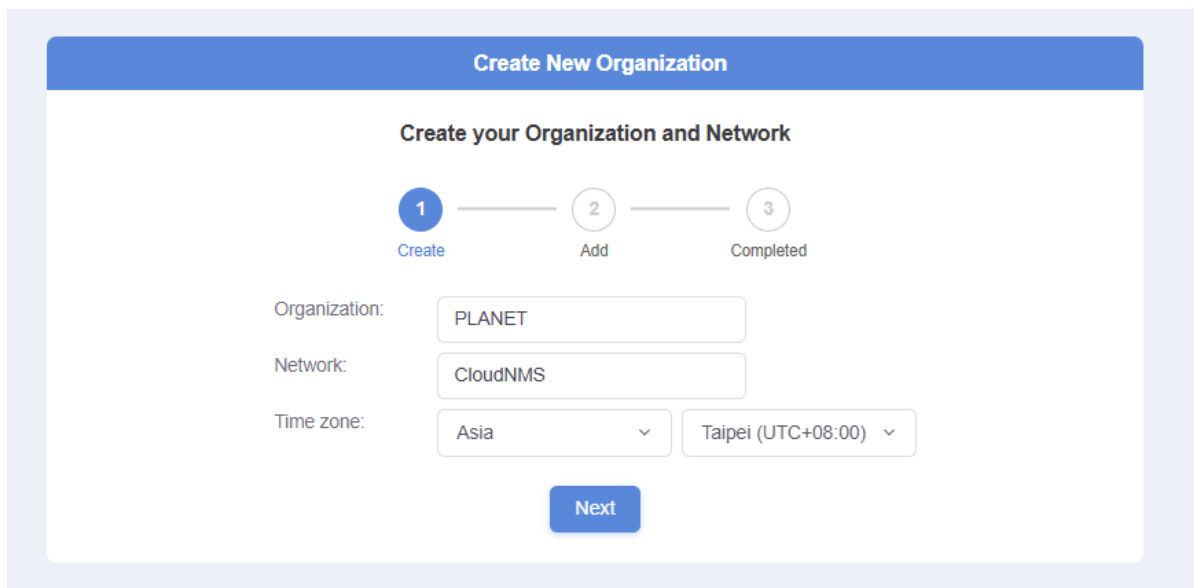
- Log in to the PLANET CloudNMS Platform.
- Create an Organization and a Network for the device.
- Enter the required device information and complete the setup wizard.

**Via App:**

- Launch the PLANET CloudNMS App and sign in with your CloudNMS account.
- Create an Organization and a Network for the device, then go to the Add Device process.
- Enter the required device information or Scan the QR code of the device, and complete the setup wizard.

**Web:**

1. Create an Organization and a Network



The screenshot shows a web interface titled "Create New Organization". Below the title is a subtitle "Create your Organization and Network". A progress bar with three steps is shown: "1 Create" (active), "2 Add", and "3 Completed". The form contains three input fields: "Organization:" with the value "PLANET", "Network:" with the value "CloudNMS", and "Time zone:" with a dropdown menu showing "Asia" and "Taipei (UTC+08:00)". A blue "Next" button is located at the bottom of the form.

2. Enter the required device information

Create New Organization

**Add your device(s) to PLANET CloudNMS**

1 Create
2 Add
3 Completed

+ Add
1 Devices

Download Import Template
Import

| MAC Address                                                                                                                      | Serial Number                                                                                                                   | Name                                                                                                                                  | Model                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">a8:f7:e0:5</div> <small>Format: XX:XX:XX:XX:XX:XX</small> | <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;"></div> <small>Enter a 14-character serial number</small> | <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">S<br/>k<br/>i<br/>p</div> <small>Enter the device name</small> | <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;"></div> |

☐ Auto-skip invalid devices

Back
Next

3. Finish

Create New Organization

**New Organization Information**

1 Create
2 Add
3 Completed

Organization Information

|              |             |
|--------------|-------------|
| Organization | PLANET      |
| Network      | CloudNMS    |
| Time Zone    | Asia/Taipei |

Devices

🔌 0 Switch(es)

📶 1 Access point(s)

Download Import History

Finish Setup and Go to Dashboard

**App:**

1. Create an Organization and a Network

< Back **Create Organization**

**Step 1 / 3 : Create New Organization**  
Create your Organization and Network

Organization  
PLANET

Network  
CloudNMS

Time Zone  
 Taiwan  
 Asia/Taipei

Next

2. Enter the required device information or Scan QR code

< Back **Create Organization** Skip

**Step 2 / 3 : Create New Devices**  
Create new devices to PLANET CloudNMS

Serial Number  
S192L24240196

MAC Address  
001122334455, 00:11:22:33:44:55

+ Add Scan

Check Result 0 Result

No data available

Next

< Back **Add device**

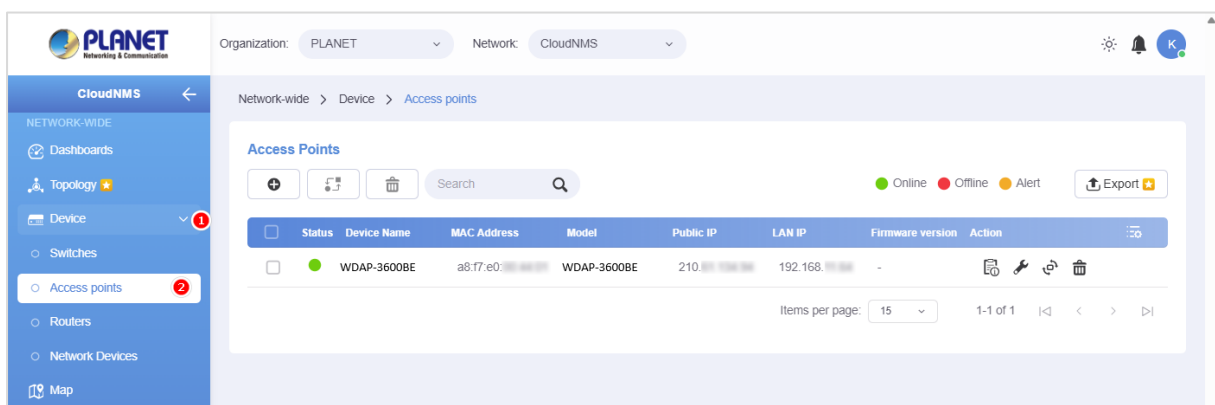
Scan the QR Code via device's Web

### 3. Finish

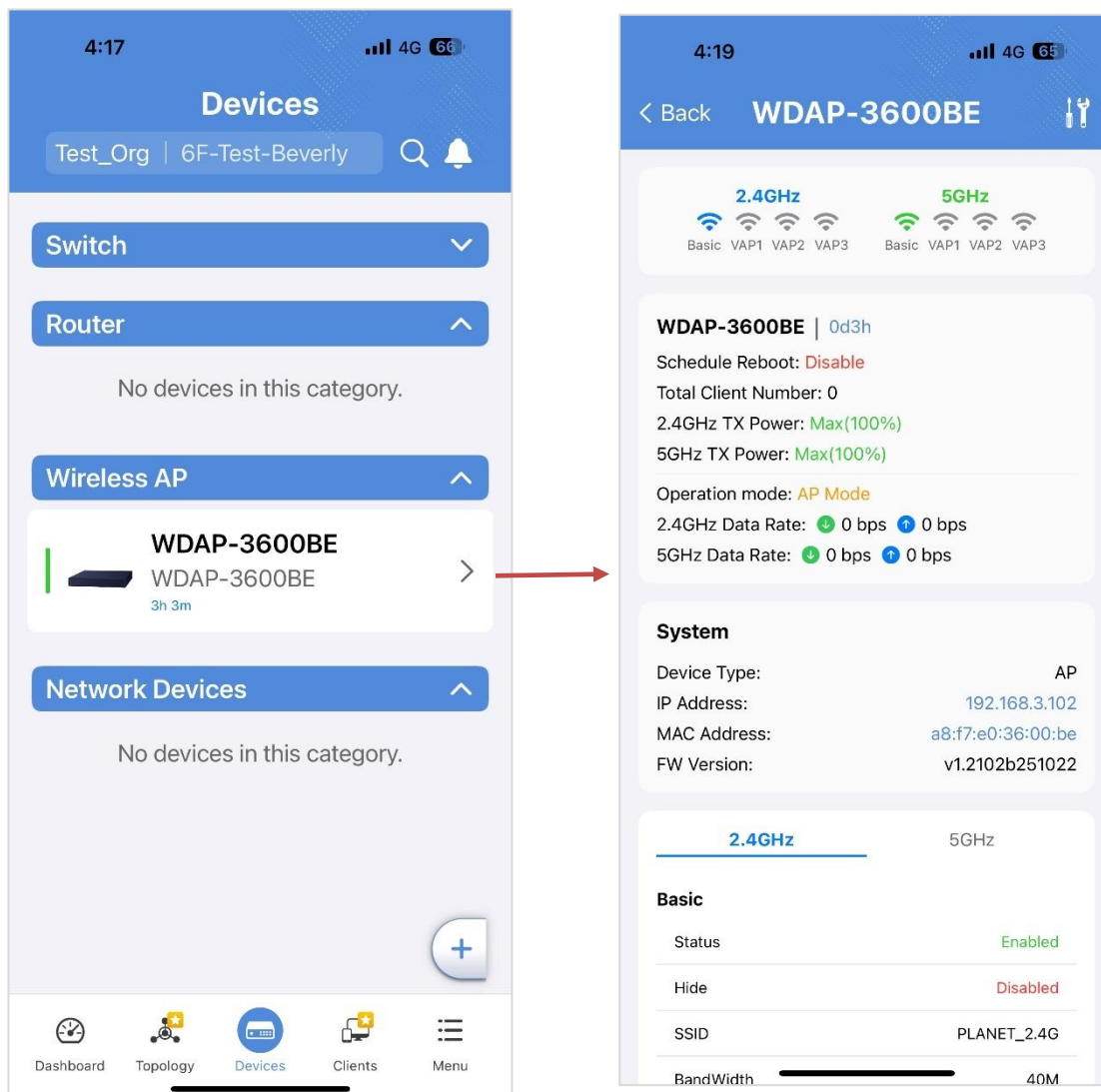


### Step 5: Finish

Web:



App:



### 4.1.12 Remote Syslog

**Remote Syslog**

|                  |                                                       |           |
|------------------|-------------------------------------------------------|-----------|
| Enable           | <input type="checkbox"/>                              |           |
| Syslog Server    | <input style="width: 100%;" type="text"/>             |           |
| Port Destination | <input style="width: 100%;" type="text" value="514"/> | (1~65535) |

Apply Settings
Cancel Changes

**Figure 4-25:** Remote Syslog

| Object                      | Description                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Enable Remote Syslog</b> | Enable or disable the Remote Syslog function. When enabled, system logs will be sent to the specified Syslog server. |
| <b>Syslog Server</b>        | Enter the IP address or domain name of the remote Syslog server.                                                     |
| <b>Port Destination</b>     | Specify the destination port of the Syslog server (default: 514).                                                    |

## 4.1.13 Event Log

| Event Log |                     |             |                           |
|-----------|---------------------|-------------|---------------------------|
| 1         |                     |             |                           |
| No.       | Date Time           | Uptime      | Message                   |
| 1         | 2025-10-22 10:54:49 | 0d 00:12:31 | Web configure change      |
| 2         | 2025-10-22 10:54:31 | 0d 00:12:13 | RADIUS configure change   |
| 3         | 2025-10-22 10:54:31 | 0d 00:12:13 | Wireless configure change |
| 4         | 2025-10-22 10:54:31 | 0d 00:12:13 | Firewall configure change |
| 5         | 2025-10-22 10:54:31 | 0d 00:12:13 | Network configure change  |
| 6         | 2025-10-22 10:54:31 | 0d 00:12:13 | DHCP configure change     |
| 7         | 2025-10-22 10:54:31 | 0d 00:12:13 | Network configure change  |
| 8         | 2025-10-22 10:54:31 | 0d 00:12:13 | Network configure change  |
| 9         | 2025-10-22 10:54:31 | 0d 00:12:13 | System configure change   |
| 10        | 2025-10-22 10:54:31 | 0d 00:12:13 | VLAN configure change     |
| 11        | 2021-10-24 17:01:55 | 0d 00:00:50 | UPnP configure change     |
| 12        | 2021-10-24 17:01:41 | 0d 00:00:36 | Wireless configure change |
| 13        | 2021-10-24 17:01:41 | 0d 00:00:36 | Network configure change  |
| 14        | 2021-10-24 17:01:41 | 0d 00:00:36 | System configure change   |
| 15        | 2021-10-24 17:01:41 | 0d 00:00:36 | Web configure change      |
| 16        | 2021-10-24 17:01:41 | 0d 00:00:36 | System configure change   |

Clear All Event Logs

Figure 4-26: Event Log

| Object    | Description                   |
|-----------|-------------------------------|
| Event Log | Display Event Log information |

## 4.2 Network

The Network function provides WAN, LAN and network configuration of the router as shown in [Figure 4-27](#).



**Figure 4-27:** Network Menu

| Object         | Description                                                                    |
|----------------|--------------------------------------------------------------------------------|
| <b>WAN</b>     | Allows setting WAN interface.                                                  |
| <b>LAN</b>     | Allows setting LAN interface.                                                  |
| <b>UPnP</b>    | Disable or enable the UPnP function.<br>The default configuration is disabled. |
| <b>Routing</b> | Allows setting Route.                                                          |
| <b>RIP</b>     | Disable or enable the RIP function.<br>The default configuration is disabled.  |
| <b>OSPF</b>    | Disable or enable the OSPF function.<br>The default configuration is disabled. |
| <b>IGMP</b>    | Disable or enable the IGMP function.<br>The default configuration is disabled. |
| <b>IPv6</b>    | Allows setting IPv6 WAN interface.                                             |
| <b>DHCP</b>    | Allows setting DHCP Server.                                                    |
| <b>DDNS</b>    | Allows setting DDNS and PLANET DDNS.                                           |

## 4.2.1 WAN

This page is used to configure the parameters for Internet network which connects to the WAN port of the router as shown in [Figure 4-28](#). Here you may select the access method by clicking the item value of WAN access type.

**WAN1 Configuration**

|                 |                                       |
|-----------------|---------------------------------------|
| Display Name    | <input type="text" value="WAN1"/>     |
| Connection Type | <input type="text" value="Static"/> ▾ |
| IP Address      | <input type="text"/>                  |
| Netmask         | <input type="text"/>                  |
| Default Gateway | <input type="text"/>                  |
| DNS Server 1    | <input type="text"/>                  |
| DNS Server 2    | <input type="text"/>                  |

**WAN1 Configuration**

|                 |                                     |
|-----------------|-------------------------------------|
| Display Name    | <input type="text" value="WAN1"/>   |
| Connection Type | <input type="text" value="DHCP"/> ▾ |
| IP Address      | <input type="text"/>                |
| Netmask         | <input type="text"/>                |
| Default Gateway | <input type="text"/>                |
| DNS Server 1    | <input type="text"/>                |
| DNS Server 2    | <input type="text"/>                |

**WAN1 Configuration**

|                 |                                      |
|-----------------|--------------------------------------|
| Display Name    | <input type="text" value="WAN1"/>    |
| Connection Type | <input type="text" value="PPPoE"/> ▾ |
| Username        | <input type="text"/>                 |
| Password        | <input type="text"/>                 |

WAN1 Configuration

Display Name

WAN1

Connection Type

PPTP

Server

Username

Password

Enable MPPE Encryption

☐ Enable
☒ Disable

Connection Type

DHCP

Apply Settings

Cancel Changes

WAN1 Configuration

Display Name

WAN1

Connection Type

L2TP

Server

Username

Password

Connection Type

DHCP

Apply Settings

Cancel Changes

Figure 4-28: WAN

| Object          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | Please select the corresponding WAN Access Type for the Internet, and fill out the correct parameters from your local ISP in the fields which appear below.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| WAN Access Type | <div> <div>Static</div> <div> <p>Select Static IP Address if all the Internet ports' IP information is provided to you by your ISP (Internet Service Provider). You will need to enter the IP address, Netmask, Gateway, and DNS Server provided to you by your ISP.</p> <p>Each IP address entered in the fields must be in the appropriate IP form, which are four octets separated by a dot (x.x.x.x). The router will not accept the IP address if it is not in this format.</p> <p><b>IP Address</b></p> <p>Enter the IP address assigned by your ISP.</p> <p><b>Netmask</b></p> <p>Enter the Subnet Mask assigned by your ISP.</p> <p><b>Gateway</b></p> <p>Enter the Gateway assigned by your ISP.</p> </div> </div> |

| Object       | Description                                                                                                  |
|--------------|--------------------------------------------------------------------------------------------------------------|
|              | <b>DNS Server</b><br>The DNS server information will be supplied by your ISP.                                |
| <b>DHCP</b>  | Select DHCP Client to obtain IP Address information automatically from your ISP.                             |
| <b>PPPoE</b> | Select PPPOE if your ISP is using a PPPoE connection and provide you with PPPoE user name and password info. |
| <b>PPTP</b>  | Enable or disable PPTP to pass through PPTP communication data.                                              |
| <b>L2TP</b>  | Enable or disable L2TP to pass through L2TP communication data.                                              |



WAN IP, whether obtained automatically or specified manually, should NOT be on the same IP net segment as the LAN IP; otherwise, the router will not work properly. In case of emergency, press the hardware-based "Reset" button.

## 4.2.2 LAN

This page is used to configure the parameters for local area network which connects to the LAN port of your router as shown in [Figure 4-29](#). Here you may change the settings for IP address, subnet mask, DHCP, etc.

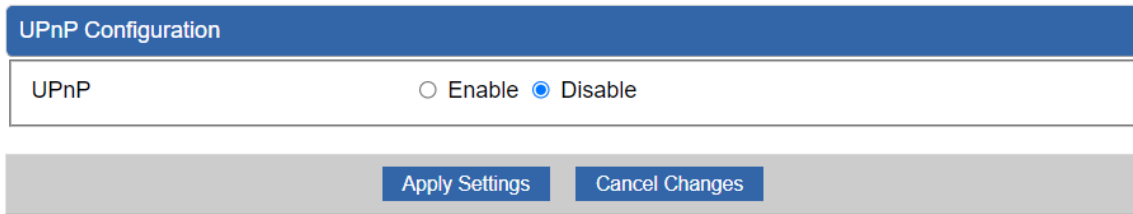
**LAN Configuration**

|            |                                            |
|------------|--------------------------------------------|
| IP Address | <input type="text" value="192.168.1.1"/>   |
| Netmask    | <input type="text" value="255.255.255.0"/> |

**Figure 4-29:** LAN Setup

| Object            | Description                                                          |
|-------------------|----------------------------------------------------------------------|
| <b>IP Address</b> | The LAN IP address of the router and default is <b>192.168.1.1</b> . |
| <b>Net Mask</b>   | Default is <b>255.255.255.0</b> .                                    |

### 4.2.3 UPnP



The image shows a web-based configuration interface for UPnP. It features a blue header bar with the text "UPnP Configuration". Below this, there is a white box containing the label "UPnP" followed by two radio buttons: "Enable" (which is unselected) and "Disable" (which is selected). At the bottom of the interface, there is a grey bar containing two blue buttons: "Apply Settings" and "Cancel Changes".

**Figure 4-30:** UPnP

| Object      | Description                           |
|-------------|---------------------------------------|
| <b>UPnP</b> | Set the function as enable or disable |

## 4.2.4 Routing

Please refer to the following sections for the details as shown in [Figures 5-28 and 29](#).

| Routing Table Rules               |             |             |               |         |           |         |           |
|-----------------------------------|-------------|-------------|---------------|---------|-----------|---------|-----------|
| No.                               | Type        | Destination | Netmask       | Gateway | Interface | Comment | Action    |
| Current Routing Table Information |             |             |               |         |           |         |           |
| No.                               | Destination |             | Netmask       |         | Gateway   |         | Interface |
| 1                                 | 192.168.1.0 |             | 255.255.255.0 |         | 0.0.0.0   |         | LAN       |
| <div>Add Routing Table Rule</div> |             |             |               |         |           |         |           |

**Figure 4-31: Routing table**

| Routing Table Configuration                                                                 |                       |
|---------------------------------------------------------------------------------------------|-----------------------|
| Type                                                                                        | Host ▼                |
| Destination                                                                                 | <input type="text"/>  |
| Netmask                                                                                     | 255.255.255.255 /32 ▼ |
| Default Gateway                                                                             | <input type="text"/>  |
| Interface                                                                                   | LAN ▼                 |
| Comment                                                                                     | <input type="text"/>  |
| <input type="button" value="Apply Settings"/> <input type="button" value="Cancel Changes"/> |                       |

**Figure 4-32: Routing setup**

Routing tables contain a list of IP addresses. Each IP address identifies a remote router (or other network gateway) that the local router is configured to recognize. For each IP address, the routing table additionally stores a network mask and other data that specifies the destination IP address ranges that remote device will accept.

| Object             | Description                                                                                                                               |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Type</b>        | There are two types: Host and Net.<br>When the Net type is selected, user does not need to input the Gateway.                             |
| <b>Destination</b> | The network or host IP address desired to access.                                                                                         |
| <b>Net Mask</b>    | The subnet mask of destination IP.                                                                                                        |
| <b>Gateway</b>     | The gateway is the router or host's IP address to which packet was sent.<br>It must be the same network segment with the WAN or LAN port. |
| <b>Interface</b>   | Select the interface that the IP packet must use to transmit out of the router when this route is used.                                   |
| <b>Comment</b>     | Enter any words for recognition.                                                                                                          |

## 4.2.5 RIP

**RIP Configuration**

Dynamic Route

☐ Enable ☒ Disable

RIP Versions

RIP 2 ▾

Apply Settings

Cancel Changes

**Figure 4-33** RIP

| Object               | Description                        |
|----------------------|------------------------------------|
| <b>Dynamic Route</b> | Disable or enable the RIP function |
| <b>RIP Versions</b>  | Set RIP Versions                   |

## 4.2.6 OSPF

**OSPF Configuration**

OSPF

☐ Enable
 ☒ Disable

Router ID

Area ID

Apply Settings

Cancel Changes

**Figure 4-34: OSPF**

| Object           | Description               |
|------------------|---------------------------|
| <b>OSPF</b>      | Enable the OSPF function. |
| <b>Router ID</b> | Set Router ID             |
| <b>Area ID</b>   | Set Area ID               |

## 4.2.7 IGMP

**IGMP Configuration**

IGMP Proxy

☐ Enable
 ☒ Disable

IGMP Versions

Auto

▼

Apply Settings

Cancel Changes

**Figure 4-35: IGMP**

| Object               | Description               |
|----------------------|---------------------------|
| <b>IGMP</b>          | Enable the IGMP function. |
| <b>IGMP Versions</b> | Select the GMP Versions   |

## 4.2.8 IPv6

This page is used to configure parameter for IPv6 internet network which connects to WAN port of the router as shown in [Figure 4-36](#). It allows you to enable IPv6 function and set up the parameters of the router's WAN. In this setting you may change WAN connection type and other settings.

IPv6 - WAN1

Connection Type

DHCP

IPv6 Address

Subnet Prefix Length

64

Default Gateway

IPv6 DNS Server 1

IPv6 DNS Server 2

IPv6 - LAN

Type

☒ Delegate Prefix from WAN
 ☐ Static

Static Address

Subnet Prefix Length

64

DHCPv6

Address Assign

☒ Stateless
 ☐ Stateful
 ☐ Passthrough
 ☐ Disable

Apply Settings

Cancel Changes

IPv6 - WAN1

Connection Type

Static

IPv6 Address

Subnet Prefix Length

64

Default Gateway

IPv6 DNS Server 1

IPv6 DNS Server 2

IPv6 - LAN

Type

☒ Delegate Prefix from WAN
 ☐ Static

Static Address

Subnet Prefix Length

64

DHCPv6

Address Assign

☒ Stateless
 ☐ Stateful
 ☐ Passthrough
 ☐ Disable

Apply Settings

Cancel Changes

**Figure 4-36: IPv6 WAN setup**

| Object                      | Description                                          |
|-----------------------------|------------------------------------------------------|
| <b>Connection Type</b>      | Select IPv6 WAN type either by using DHCP or Static. |
| <b>IPv6 Address</b>         | Enter the WAN IPv6 address.                          |
| <b>Subnet Prefix Length</b> | Enter the subnet prefix length.                      |
| <b>Default Gateway</b>      | Enter the default gateway of the WAN port.           |
| <b>IPv6 DNS Server 1</b>    | Input a specific DNS server                          |
| <b>IPv6 DNS Server 2</b>    | Input a specific DNS server                          |

## 4.2.9 DHCP

The DHCP service allows you to control the IP address configuration of all your network devices. When a client (host or other device such as networked printer, etc.) joins your network it will automatically get a valid IP address from a range of addresses and other settings from the DHCP service. The client must be configured to use DHCP; this is something called "automatic network configuration" and is often the default setting. The setup is shown in [Figure 4-37](#).

DHCP Configuration

DHCP Server

☒ Enable
☐ Disable

Start IP Address

192.168.1.100

Maximum DHCP Users

101

DNS Server

☒ Automatically
☐ Manually

Primary DNS Server

Secondary DNS Server

WINS

Lease Time

1440

minutes

Domain Name

Static DHCP List

| Index | Device Name | IP Address    | MAC Address       | Delete         |
|-------|-------------|---------------|-------------------|----------------|
|       |             | 192.168.1.150 | 00:30:4F:00:00:01 | <div>Add</div> |

Apply Settings

Cancel Changes

**Figure 4-38: DHCP**

| Object                    | Description                                                                                                                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DHCP Service</b>       | By default, the DHCP Server is enabled, meaning the router will assign IP addresses to the DHCP clients automatically. If user needs to disable the function, please set it as disable.               |
| <b>Start IP Address</b>   | By default, the start IP address is 192.168.1.100. Please do not set it to the same IP address of the router.                                                                                         |
| <b>Maximum DHCP Users</b> | By default, the maximum DHCP users are 101, meaning the router will provide DHCP client with IP address from 192.168.1.100 to 192.168.1.200 when the start IP address is 192.168.1.100.               |
| <b>DNS Server</b>         | By default, it is set as Automatically, and the DNS server is the router's LAN IP address. If user needs to use specific DNS server, please set it as Manually, and then input a specific DNS server. |

| Object                              | Description                                                                                                                                                  |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Primary/Secondary DNS Server</b> | Input a specific DNS server.                                                                                                                                 |
| <b>WINS</b>                         | Input a WINS server if needed.                                                                                                                               |
| <b>Lease Time</b>                   | Set the time for using one assigned IP. After the lease time, the DHCP client will need to get new IP addresses from the router.<br>Default is 1440 minutes. |
| <b>Domain Name</b>                  | Input a domain name for the router.                                                                                                                          |

## 4.2.10 DDNS

The router offers the DDNS (Dynamic Domain Name System) feature, which allows the hosting of a website, FTP server, or e-mail server with a fixed domain name (named by yourself) and a dynamic IP address, and then your friends can connect to your server by entering your domain name no matter what your IP address is. Before using this feature, you need to sign up for DDNS service providers such as **PLANET DDNS** (<http://www.planetddns.com>) and set up the domain name of your choice.

PLANET DDNS website provides a free DDNS (Dynamic Domain Name Server) service for PLANET devices. Whether the IP address used on your PLANET device supporting DDNS service is fixed or dynamic, you can easily connect the devices anywhere on the Internet with a meaningful or easy-to-remember name you gave. PLANET DDNS provides two types of DDNS services. One is **PLANET DDNS** and the other is **PLANET Easy DDNS** as shown in [Figure 5-35](#).

### PLANET DDNS

For example, you've just installed a PLANET IP camera with dynamic IP like 210.66.155.93 in the network. You can name this device as "Mycam1" and register a domain as Mycam1.planetddns.com at PLANET DDNS (<http://www.planetddns.com>). Thus, you don't need to memorize the exact IP address but just the URL link: Mycam1.planetddns.com.

### PLANET Easy DDNS

PLANET Easy DDNS is an easy way to help user to get your Domain Name with just one click. You can just log in to the Web Management Interface of your devices, say, your router, and check the DDNS menu and just enable it. You don't need to go to <http://www.planetddns.com> to apply for a new account. Once you enabled the Easy DDNS, your PLANET Network Device will use the format PLxxxxxx where xxxxxx is the last 6 characters of your MAC address that can be found on the Web page or bottom label of the device. (For example, if the router's MAC address is A8-F7-E0-81-96-C9, it will be converted into pt8196c9.planetddns.com)

DDNS Configuration

Dynamic DNS

☒ Enable
 ☐ Disable

Interface

WAN1

DDNS Type

PLANET DDNS

PLANET Easy DDNS

Disable

User Name

Password

Host Name

Interval

120

seconds

Connection Status

Not enabled

Apply Settings

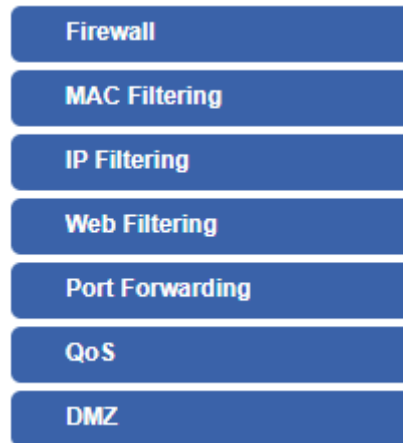
Cancel Changes

**Figure 4-39: PLANET DDNS**

| Object                   | Description                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DDNS Service</b>      | By default, the DDNS service is disabled.<br>If user needs to enable the function, please set it as enable.                                                                                                                                                                                                                                 |
| <b>Interface</b>         | User is able to select the interface for DDNS service.<br>By default, the interface is WAN 1.                                                                                                                                                                                                                                               |
| <b>DDNS Type</b>         | There are three options:<br><ol style="list-style-type: none"> <li>1. PLANET DDNS: Activate PLANET DDNS service.</li> <li>2. DynDNS: Activate DynDNS service.</li> <li>3. NOIP: Activate NOIP service.</li> </ol> <p>Note that please first register with the DDNS service and set up the domain name of your choice to begin using it.</p> |
| <b>Easy DDNS</b>         | When the PLANET DDNS service is activated, user is able to select to enable or disable Easy DDNS.<br>When this function is enabled, DDNS hostname will appear automatically. User doesn't go to <a href="http://www.planetddns.com">http://www.planetddns.com</a> to apply for a new account.                                               |
| <b>User Name</b>         | The user name is used to log into DDNS service.                                                                                                                                                                                                                                                                                             |
| <b>Password</b>          | The password is used to log into DDNS service.                                                                                                                                                                                                                                                                                              |
| <b>Host Name</b>         | The host name as registered with your DDNS provider.                                                                                                                                                                                                                                                                                        |
| <b>Interval</b>          | Set the update interval of the DDNS function.                                                                                                                                                                                                                                                                                               |
| <b>Connection Status</b> | Show the connection status of the DDNS function.                                                                                                                                                                                                                                                                                            |

## 4.3 Security

The Security menu provides Firewall, Access Filtering and other functions as shown in [Figure 4-40](#). Please refer to the following sections for the details.



**Figure 4-40:** Security menu

| Object                 | Description                                                  |
|------------------------|--------------------------------------------------------------|
| <b>Firewall</b>        | Allows setting DoS (Denial of Service) protection as enable. |
| <b>MAC Filtering</b>   | Allows setting MAC Filtering.                                |
| <b>IP Filtering</b>    | Allows setting IP Filtering.                                 |
| <b>Web Filtering</b>   | Allows setting Web Filtering.                                |
| <b>Port Forwarding</b> | Allows setting Port Forwarding.                              |
| <b>QoS</b>             | Allows setting QoS.                                          |
| <b>DMZ</b>             | Allows setting DMZ.                                          |

### 4.3.1 Firewall

A "Denial-of-Service" (DoS) attack is characterized by an explicit attempt by hackers to prevent legitimate users of a service from using that service. The router can prevent specific DoS attacks as shown in [Figure 4-41](#).

**Firewall Protection**

**SPI Firewall**

☒ Enable
 ☐ Disable

**DDoS**

|                                                       |                                                                       |    |                |
|-------------------------------------------------------|-----------------------------------------------------------------------|----|----------------|
| Block SYN Flood                                       | <input checked="" type="radio"/> Enable <input type="radio"/> Disable | 30 | Packets/Second |
| Block FIN Flood                                       | <input type="radio"/> Enable <input checked="" type="radio"/> Disable | 30 | Packets/Second |
| Block UDP Flood                                       | <input type="radio"/> Enable <input checked="" type="radio"/> Disable | 30 | Packets/Second |
| Block ICMP Flood                                      | <input type="radio"/> Enable <input checked="" type="radio"/> Disable | 5  | Packets/Second |
| Block IP Teardrop Attack                              | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |    |                |
| Block Ping of Death                                   | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |    |                |
| Block TCP packets with SYN and FIN Bits set           | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |    |                |
| Block TCP packets with FIN Bit set but no ACK Bit set | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |    |                |
| Block TCP packets without Bits set                    | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |    |                |

**System Security**

|                                               |                                                                       |                                          |
|-----------------------------------------------|-----------------------------------------------------------------------|------------------------------------------|
| Block WAN Ping                                | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |                                          |
| HTTP Port                                     |                                                                       | 80                                       |
| HTTPs Port                                    |                                                                       | 443                                      |
| Remote Management                             | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |                                          |
| Temporarily block when login failed more than |                                                                       | 0 (0 means no limit)                     |
| IP blocking period                            |                                                                       | 0 minute(s) (0 means permanent blocking) |
| Blocked IP                                    |                                                                       | 0.0.0.0                                  |

**NAT ALGs**

|           |                                                                       |  |
|-----------|-----------------------------------------------------------------------|--|
| FTP ALG   | <input checked="" type="radio"/> Enable <input type="radio"/> Disable |  |
| TFTP ALG  | <input checked="" type="radio"/> Enable <input type="radio"/> Disable |  |
| RTSP ALG  | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |  |
| H.323 ALG | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |  |
| SIP ALG   | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |  |

Apply Settings

Cancel Changes

**Figure 4-42: Firewall**

| Object                                                 | Description                                                                                                                                                                                                                                             |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPI Firewall</b>                                    | <p>The SPI Firewall prevents attack and improper access to network resources.</p> <p>The default configuration is enabled.</p>                                                                                                                          |
| <b>Block SYN Flood</b>                                 | <p>SYN Flood is a popular attack way. DoS and DDoS are TCP protocols. Hackers like using this method to make a fake connection that involves the CPU, memory, and so on.</p> <p>The default configuration is enabled.</p>                               |
| <b>Block FIN Flood</b>                                 | <p>If the function is enabled, when the number of the current FIN packets is beyond the set value, the router will start the blocking function immediately.</p> <p>The default configuration is disabled.</p>                                           |
| <b>Block UDP Flood</b>                                 | <p>If the function is enabled, when the number of the current UDP-FLOOD packets is beyond the set value, the router will start the blocking function immediately.</p> <p>The default configuration is disabled.</p>                                     |
| <b>Block ICMP Flood</b>                                | <p>ICMP is kind of a pack of TCP/IP; its important function is to transfer simple signal on the Internet. There are two normal attack ways which hackers like to use, Ping of Death and Smurf attack.</p> <p>The default configuration is disabled.</p> |
| <b>IP TearDrop</b>                                     | <p>If the function is enabled, the router will block Teardrop attack that is targeting on TCP/IP fragmentation reassembly codes.</p>                                                                                                                    |
| <b>Ping Of Death</b>                                   | <p>If the function is enabled, the router will block Ping of Death attack that aims to disrupt a targeted machine by sending a packet larger than the maximum allowable size causing the target machine to freeze or crash.</p>                         |
| <b>TCP packets with SYN and FIN Bits set</b>           | <p>Set the function as enable or disable</p>                                                                                                                                                                                                            |
| <b>TCP packets with FIN Bit set but no ACK Bit set</b> | <p>Set the function as enable or disable</p>                                                                                                                                                                                                            |
| <b>TCP packets without Bits set</b>                    | <p>Set the function as enable or disable</p>                                                                                                                                                                                                            |
| <b>Block WAN Ping</b>                                  | <p>Enable the function to allow the Ping access from the Internet network.</p> <p>The default configuration is disabled.</p>                                                                                                                            |
| <b>HTTP Port</b>                                       | <p>The default is 80.</p>                                                                                                                                                                                                                               |
| <b>HTTPs Port</b>                                      | <p>The default is 443.</p>                                                                                                                                                                                                                              |
| <b>Remote Management</b>                               | <p>Enable the function to allow the web server access of the router from the Internet network.</p> <p>The default configuration is disabled.</p>                                                                                                        |

|                                            |                                                |
|--------------------------------------------|------------------------------------------------|
| <b>Temporarily block when login failed</b> | The default is 0. (0 means no limit)           |
| <b>IP blocking period</b>                  | The default is 0. (0 means permanent blocking) |
| <b>Blocked IP</b>                          | 0.0.0.0                                        |
| <b>FTP ALG</b>                             | Set the function as enable or disable          |
| <b>TFTP ALG</b>                            | Set the function as enable or disable          |
| <b>RTSP ALG</b>                            | Set the function as enable or disable          |
| <b>H.323 ALG</b>                           | Set the function as enable or disable          |
| <b>SIP ALG</b>                             | Set the function as enable or disable          |

### 4.3.2 MAC Filtering

Entries in this table are used to restrict certain types of data packets from your local network or Internet through the router. Use of such filters can be helpful in securing or restricting your local network as shown in [Figure 4-43](#).

**MAC Filtering**

MAC Filtering

☐ Enable ☒ Disable

Interface

☐ LAN ☐ WAN

**MAC Filtering Rules**

| Index | Active                                                                            | Device Name                      | MAC Address                                    | Action                                                                                 |
|-------|-----------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------|
|       |  | <input type="text" value="abc"/> | <input type="text" value="00:30:4F:00:00:01"/> | <a href="#" style="background-color: #4a7ebb; color: white; padding: 2px 5px;">Add</a> |

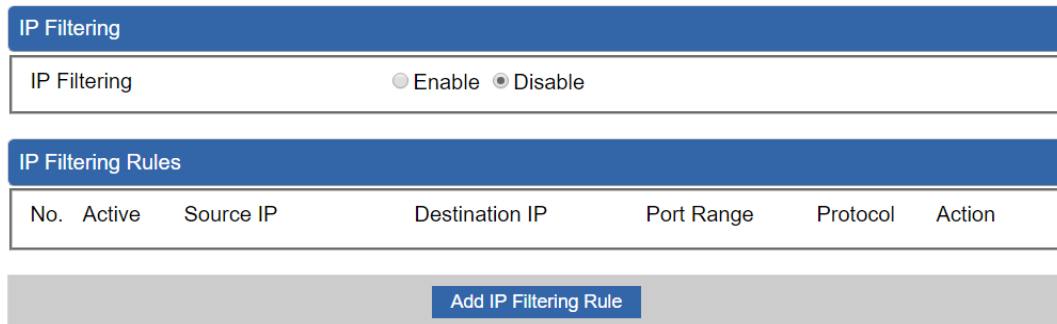
[Apply Settings](#)
[Cancel Changes](#)

**Figure 4-43: MAC Filtering**

| Object                      | Description                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Enable MAC Filtering</b> | Set the function as enable or disable.<br>When the function is enabled, the router will block traffic of the MAC address on the list. |
| <b>Interface</b>            | Select the function works on LAN, WAN or both. If you want to block a LAN device's MAC address, please select LAN, vice versa.        |
| <b>MAC Address</b>          | Input a MAC address you want to control, such as A8:F7:E0:00:06:62.                                                                   |
| <b>Add</b>                  | When you input a MAC address, please click the "Add" button to add it into the list.                                                  |

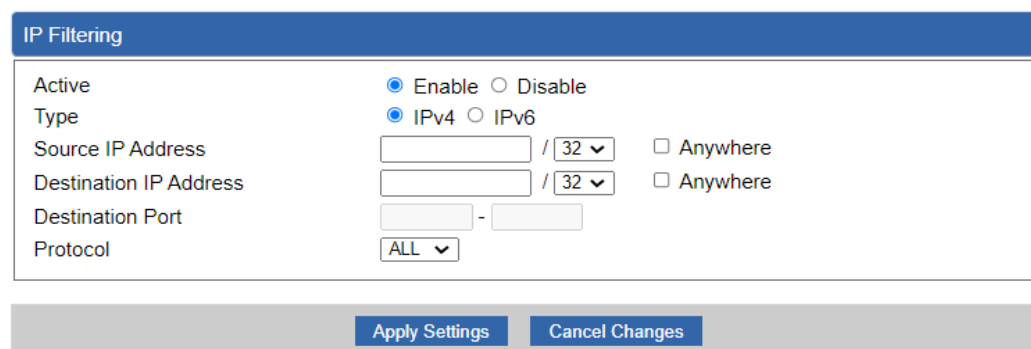
### 4.3.3 IP Filtering

IP Filtering is used to deny LAN users from accessing the public IP address on internet as shown in Figure 4-44. To begin blocking access to an IP address, enable IP Filtering and enter the IP address of the web site you wish to block.



**Figure 4-44:** IP Filtering

| Object                       | Description                                          |
|------------------------------|------------------------------------------------------|
| <b>IP Filtering</b>          | Set the function as enable or disable.               |
| <b>Add IP Filtering Rule</b> | Go to the Add Filtering Rule page to add a new rule. |



**Figure 4-45:** IP Filter Rule Setting

| Object                                      | Description                                                                                        |
|---------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Enable</b>                               | Set the rule as enable or disable.                                                                 |
| <b>Type</b>                                 | Set the type as IPv4 or IPv6                                                                       |
| <b>Source IP Address</b>                    | Input the IP address of LAN user (such as PC or laptop) which you want to control.                 |
| <b>Anywhere (of source IP Address)</b>      | Check the box if you want to control all LAN users.                                                |
| <b>Destination IP Address</b>               | Input the IP address of web site which you want to block.                                          |
| <b>Anywhere (of destination IP Address)</b> | Check the box if you want to control all web sites, meaning the LAN user can't visit any web site. |
| <b>Destination Port</b>                     | Input the port of destination IP Address which you want to block.                                  |

| Object          | Description                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------------------|
|                 | Leave it as blank if you want to block all ports of the web site.                                              |
| <b>Protocol</b> | Select the protocol type (TCP, UDP or all).<br>If you are unsure, please leave it to the default all protocol. |

### 4.3.4 Web Filtering

Web filtering is used to deny LAN users from accessing the internet as shown in [Figure 4-46](#). Block those URLs which contain keywords listed below.

Web Filtering

Web Filtering
☐ Enable
☒ Disable

Web Filtering Rules

| No.                               | Active | Filter Keyword | Action |
|-----------------------------------|--------|----------------|--------|
| <div>Add Web Filtering Rule</div> |        |                |        |

**Figure 4-46:** Web Filtering

| Object                        | Description                                              |
|-------------------------------|----------------------------------------------------------|
| <b>Web Filtering</b>          | Set the function as enable or disable.                   |
| <b>Add Web Filtering Rule</b> | Go to the Add Web Filtering Rule page to add a new rule. |

Web Filter Settings

Status

Filter Keyword

Apply Settings

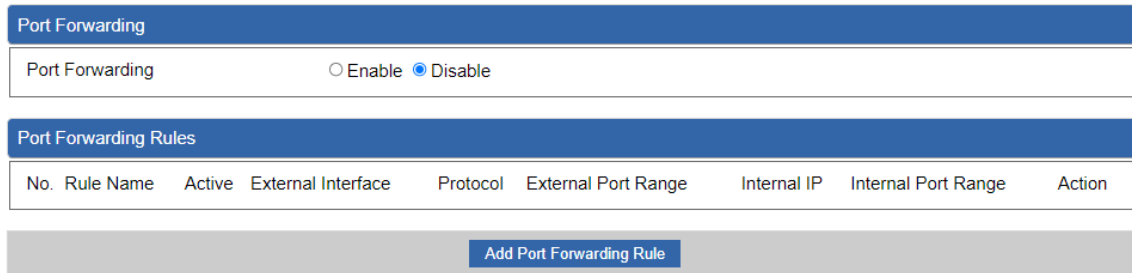
Cancel Changes

**Figure 4-47:** Web Filtering Rule Setting

| Object                | Description                                                           |
|-----------------------|-----------------------------------------------------------------------|
| <b>Status</b>         | Set the rule as enable or disable.                                    |
| <b>Filter Keyword</b> | Input the URL address that you want to filter, such as www.yahoo.com. |

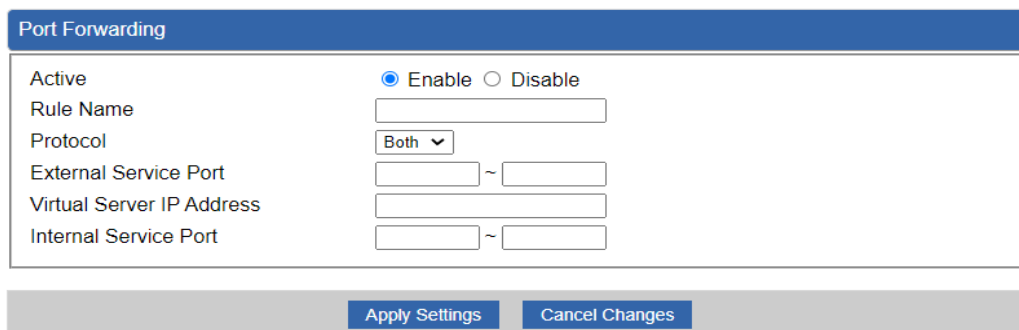
### 4.3.5 Port Forwarding

Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall as shown in [Figure 4-48](#). These settings are only necessary if you wish to host some sort of server like a web server or mail server on the private local network behind your Router's NAT firewall.



**Figure 4-48: Port Forwarding**

| Object                          | Description                                                |
|---------------------------------|------------------------------------------------------------|
| <b>Port Forwarding</b>          | Set the function as enable or disable.                     |
| <b>Add Port Forwarding Rule</b> | Go to the Add Port Forwarding Rule page to add a new rule. |



**Figure 4-49: Port Forwarding Rule Setting**

| Object                           | Description                                                                                                                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Active</b>                    | Set the function as enable or disable                                                                                                                                                                                                 |
| <b>Rule Name</b>                 | Enter any words for recognition.                                                                                                                                                                                                      |
| <b>Protocol</b>                  | Select the protocol type (TCP, UDP or both). If you are unsure, please leave it to the default both protocols.                                                                                                                        |
| <b>External Service Port</b>     | Enter the external ports you want to control. For TCP and UDP services, enter the beginning of the range of port numbers used by the service. If the service uses a single port number, enter it in both the start and finish fields. |
| <b>Virtual Server IP Address</b> | Enter the local IP address.                                                                                                                                                                                                           |
| <b>Internal Service Port</b>     | Enter local ports you want to control. For TCP and UDP Services, enter the beginning of the range of port numbers used by the                                                                                                         |

| Object | Description                                                                                      |
|--------|--------------------------------------------------------------------------------------------------|
|        | service. If the service uses a single port number, enter it in both the start and finish fields. |

### 4.3.6 QoS

QoS - WAN1

Quality of Service

☐ Enable
☒ Disable

Upstream

Kbps

Downstream

Kbps

Upstream Bandwidth

| Priority | Maximum Bandwidth                  | Bandwidth Value                          |
|----------|------------------------------------|------------------------------------------|
| Premium  | <input type="text" value="100"/> % | WAN1 <input type="text" value="0"/> Kbps |
| Express  | <input type="text" value="100"/> % | WAN1 <input type="text" value="0"/> Kbps |
| Standard | <input type="text" value="100"/> % | WAN1 <input type="text" value="0"/> Kbps |
| Bulks    | <input type="text" value="100"/> % | WAN1 <input type="text" value="0"/> Kbps |

Downstream Bandwidth

| Priority | Maximum Bandwidth                  | Bandwidth Value                          |
|----------|------------------------------------|------------------------------------------|
| Premium  | <input type="text" value="100"/> % | WAN1 <input type="text" value="0"/> Kbps |
| Express  | <input type="text" value="100"/> % | WAN1 <input type="text" value="0"/> Kbps |
| Standard | <input type="text" value="100"/> % | WAN1 <input type="text" value="0"/> Kbps |
| Bulks    | <input type="text" value="100"/> % | WAN1 <input type="text" value="0"/> Kbps |

Service Priority

| Protocol                                     | Description                    | Priority                               | Action                             |
|----------------------------------------------|--------------------------------|----------------------------------------|------------------------------------|
| <input type="text" value="AOL(TCP:5190)"/> ▼ | AOL Instant Messenger protocol | <input type="text" value="Premium"/> ▼ | <input type="button" value="Add"/> |

Network Priority

| Source Network                              | Protocol                           | Destination Port Range                       | Priority                               | Action                             |
|---------------------------------------------|------------------------------------|----------------------------------------------|----------------------------------------|------------------------------------|
| <input type="text"/> / <input type="text"/> | <input type="text" value="ALL"/> ▼ | <input type="text"/> -- <input type="text"/> | <input type="text" value="Premium"/> ▼ | <input type="button" value="Add"/> |

Figure 4-50: QoS Setting

| Object                      | Description                  |
|-----------------------------|------------------------------|
| <b>QoS - WAN1</b>           | Enable/disable QoS function  |
| <b>Upstream Bandwidth</b>   | Setting Upstream Bandwidth   |
| <b>Downstream Bandwidth</b> | Setting Downstream Bandwidth |
| <b>Service Priority</b>     | Setting Service Priority     |
| <b>Network Priority</b>     | Setting Network Priority     |

### 4.3.7 DMZ

A Demilitarized Zone is used to provide Internet services without sacrificing unauthorized access to its local private network as shown in [Figure 4-51](#). Typically, the DMZ host contains devices accessible to Internet traffic, such as Web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers.

DMZ - WAN1

DMZ

☐ Enable
 ☒ Disable

DMZ IP Address

Apply Settings

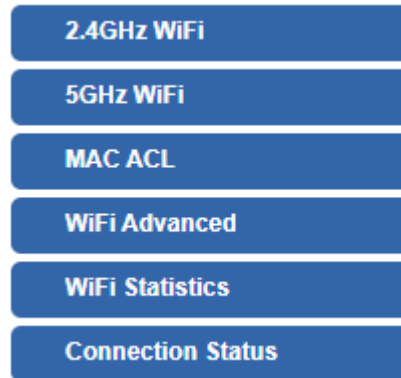
Cancel Changes

**Figure 4-51: DMZ**

| Object                | Description                                                                                                                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DMZ</b>            | Set the function as enable or disable. If the DMZ function is enabled, it means that you set up DMZ at a particular computer to be exposed to the Internet so that some applications/software, especially Internet/online game can have two way connections. |
| <b>DMZ IP Address</b> | Enter the IP address of a particular host in your LAN which will receive all the packets originally going to the WAN port/Public IP address above.                                                                                                           |

## 4.4 Wireless

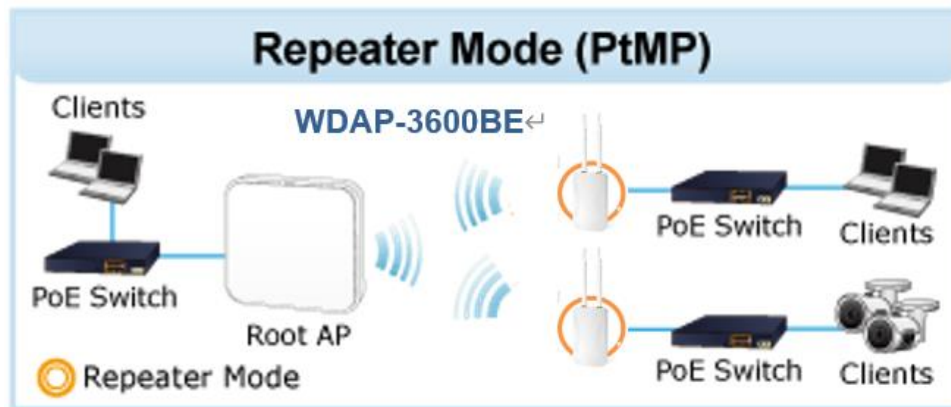
The Wireless menu provides the following features for managing the system



**Figure 4-52:** Wireless Menu

| Object            | Description                                   |
|-------------------|-----------------------------------------------|
| 2.4G Wi-Fi        | Allow to configure 2.4G Wi-Fi.                |
| 5G Wi-Fi          | Allow to configure 5G Wi-Fi.                  |
| MAC ACL           | Allow configure MAC ACL.                      |
| Wi-Fi Advanced    | Allow to configure advanced setting of Wi-Fi. |
| Wi-Fi Statistics  | Display the statistics of Wi-Fi traffic.      |
| Connection Status | Display the connection status.                |

## 4.4.1 Repeater



This page allows the user to define Repeater

Repeater Configuration

Select Radio

SSID

Lock BSSID

BSSID

Encryption

Use 5GHz Radio

▼

PLANET\_5G

Scan

☐ Enable

☒ Disable

A8:F7:E0:B2:31:FB

Open

▼

Apply Settings

Cancel Changes

**Figure 4-53:** Repeater

| Object                | Description                                                               |
|-----------------------|---------------------------------------------------------------------------|
| Select Radio          | Select “2.4GHz” or “5GHz” wireless LAN.                                   |
| SSID (Wireless Name ) | Enter the root AP’s SSID or press “ <b>Scan</b> ” to select.              |
| Lock BSSID            | Enable/disable to lock the root AP’s MAC address.                         |
| BSSID                 | The root AP’s MAC address                                                 |
| Encryption            | Select the wireless encryption of root AP. The default is “ <b>Open</b> ” |

## 4.4.2 2.4G Wi-Fi

This page allows the user to define 2.4G Wi-Fi.

2.4GHz WiFi Configuration

Basic

Virtual AP1

Virtual AP2

Virtual AP3

Wireless Status

Wireless Name (SSID)

Hide SSID

Wireless Mode

Channel

Encryption

WiFi Multimedia

VLAN ID

☒ Enable ☐ Disable

PLANET\_2.4G

☐ Enable ☒ Disable

11 AX 20/40MHz

6

Open

☒ Enable ☐ Disable

1

Apply Settings

Cancel Changes

**Figure 4-54:** 2.4G Wi-Fi

| Object               | Description                                                             |
|----------------------|-------------------------------------------------------------------------|
| Wireless Status      | Allows user to enable or disable 2.4G Wi-Fi                             |
| Wireless Name (SSID) | It is the wireless network name. The default 2.4G SSID is "PLANET_2.4G" |
| Hide SSID            | Allows user to enable or disable SSID                                   |
| Wireless Mode        | Select the operating wireless mode                                      |
| Channel              | It shows the channel of the CPE. Default 2.4GHz is channel 6.           |
| Encryption           | Select the wireless encryption. The default is "Open"                   |
| Wi-Fi Multimedia     | Enable/Disable WMM (Wi-Fi Multimedia ) function                         |
| VLAN ID              | Setting VLAN ID                                                         |

### 4.4.3 5G Wi-Fi

This page allows the user to define 5G Wi-Fi.

5GHz WiFi Configuration

Basic
Virtual AP1
Virtual AP2
Virtual AP3

Wireless Status
☒ Enable
☐ Disable
Wireless Name (SSID)
Hide SSID
☐ Enable
☒ Disable
Wireless Mode
Channel
Encryption
WiFi Multimedia
☒ Enable
☐ Disable
VLAN ID

Apply Settings
Cancel Changes

Figure 4-55: 5G Wi-Fi

| Object               | Description                                                         |
|----------------------|---------------------------------------------------------------------|
| Wireless Status      | Allows user to enable or disable 5G Wi-Fi                           |
| Wireless Name (SSID) | It is the wireless network name. The default 5G SSID is "PLANET_5G" |
| Hide SSID            | Allows user to enable or disable SSID                               |
| Wireless Mode        | Select the operating wireless mode                                  |
| Channel              | It shows the channel of the CPE. Default 5GHz is channel 36.        |
| Encryption           | Select the wireless encryption. The default is "Open"               |
| Wi-Fi Multimedia     | Enable/Disable WMM (Wi-Fi Multimedia ) function                     |
| VLAN ID              | Setting VLAN ID                                                     |

#### 4.4.4 MAC ACL

This page allows the user to define MAC ACL.

MAC ACL

MAC ACL ☐ Enable ☒ Disable

MAC ACL Rules

| Index | Active                                                                            | Device Name                      | MAC Address                                    | Action                                                                                                                                                                                                                                 |
|-------|-----------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |  | <input type="text" value="abc"/> | <input type="text" value="00:30:4F:00:00:01"/> | <div style="background-color: #4f81bd; color: white; padding: 2px 5px; display: inline-block; margin-bottom: 5px;">Add</div> <div style="background-color: #4f81bd; color: white; padding: 2px 5px; display: inline-block;">Scan</div> |

**Figure 4-57: MAC ACL**

| Object      | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| Active      | Allows the devices to pass in the rule                                                                |
| Device Name | Set an allowed device name                                                                            |
| MAC Address | Set an allowed device MAC address                                                                     |
| Add         | Press the “ <b>Add</b> ” button to add end-device that is scanned from wireless network and mark them |
| Scan        | Connect to client list                                                                                |

## 4.4.5 Wi-Fi Advanced

This page allows the user to define advanced setting of Wi-Fi.

WiFi Advanced

|                                   |                                                                       |                   |
|-----------------------------------|-----------------------------------------------------------------------|-------------------|
| 2.4GHz Maximum Associated Clients | 75                                                                    | (Range 1~75)      |
| 5GHz Maximum Associated Clients   | 75                                                                    | (Range 1~75)      |
| 2.4GHz Coverage Threshold         | -95                                                                   | (-95dBm ~ -60dBm) |
| 5GHz Coverage Threshold           | -95                                                                   | (-95dBm ~ -60dBm) |
| 2.4GHz TX Power                   | Max(100%)                                                             | ▼                 |
| 5GHz TX Power                     | Max(100%)                                                             | ▼                 |
| 2.4GHz WLAN Partition             | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |                   |
| 5GHz WLAN Partition               | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |                   |
| RTS Threshold                     | 2347                                                                  | (0-2347)          |

Apply Settings
Cancel Changes

**Figure 4-58: Wi-Fi Advanced**

| Object                            | Description                                                                                                                                                                                                                                                                               |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.4GHz Maximum Associated Clients | The maximum users are 75                                                                                                                                                                                                                                                                  |
| 5GHz Maximum Associated Clients   | The maximum users are 75                                                                                                                                                                                                                                                                  |
| 2.4G Coverage Threshold           | The coverage threshold is to limit the weak signal of clients occupying session. The default is -95dBm                                                                                                                                                                                    |
| 5G Coverage Threshold             | The coverage threshold is to limit the weak signal of clients occupying session. The default is -95dBm                                                                                                                                                                                    |
| 2.4G TX Power                     | The range of transmit power is <b>Max (100%)</b> , <b>Efficient (75%)</b> , <b>Enhanced (50%)</b> , <b>Standard (25%)</b> or <b>Min (15%)</b> . In case of shortening the distance and the coverage of the wireless network, input a smaller value to reduce the radio transmission power |
| 5G TX Power                       | The range of transmit power is <b>Max (100%)</b> , <b>Efficient (75%)</b> , <b>Enhanced (50%)</b> , <b>Standard (25%)</b> or <b>Min (15%)</b> . In case of shortening the distance and the coverage of the wireless network, input a smaller value to reduce the radio transmission power |
| 2.4GHz WLAN Partition             | Set the function as enable or disable                                                                                                                                                                                                                                                     |
| 5GHz WLAN Partition               | Set the function as enable or disable                                                                                                                                                                                                                                                     |
| RTS Threshold                     | Enable or Disable RTS/CTS protocol. It can be used in the following scenarios and used by Stations or Wireless AP.                                                                                                                                                                        |

---

1) When medium is too noisy or lots of interferences are present. If the AP/Station cannot get a chance to send a packet, the RTS/CTS mechanism can be initiated to get the packet sent.

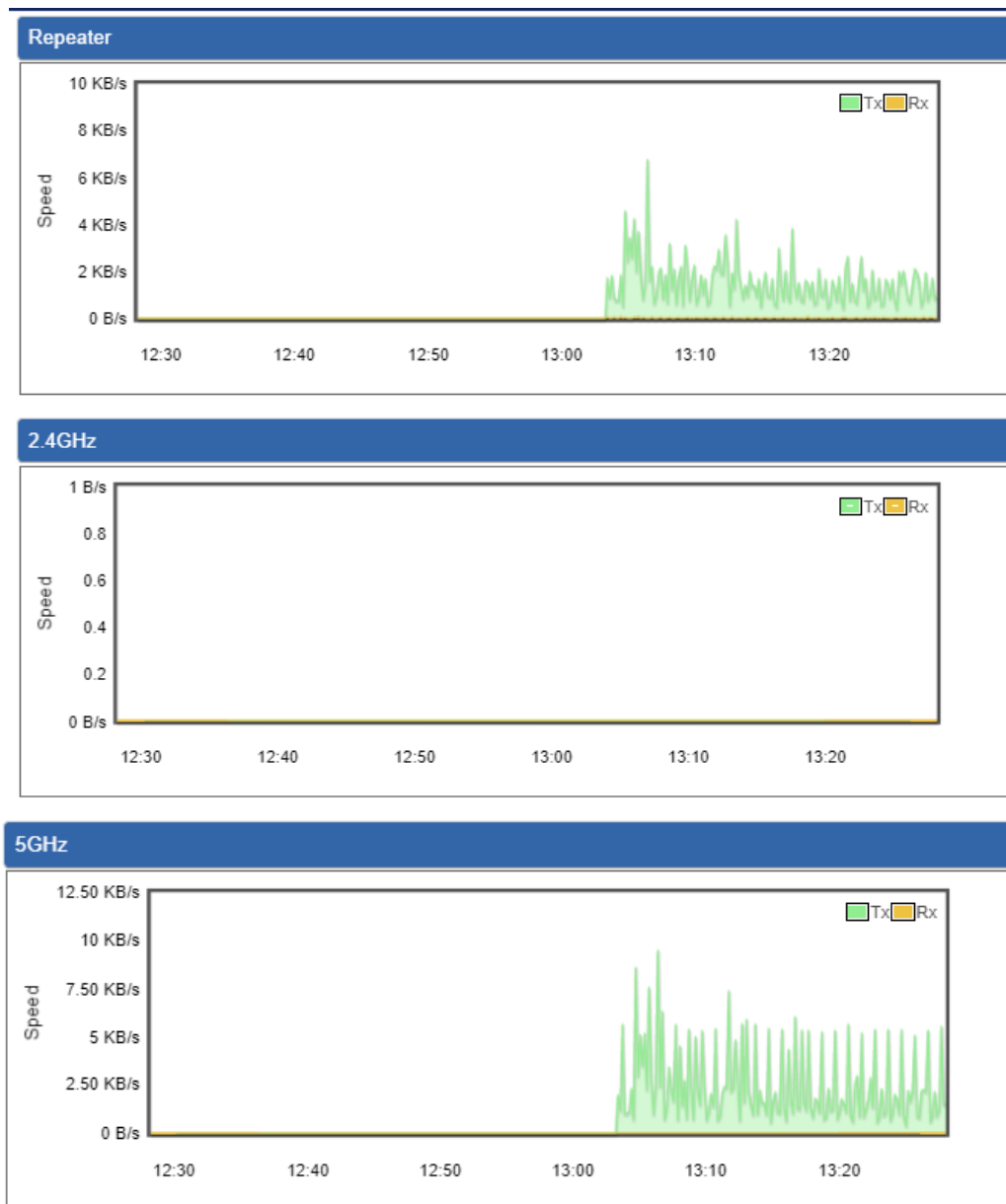
2) In mixed mode, the hidden node problem can be avoided.

The default value is **2347**

---

## 4.4.6 Wi-Fi Statistics

This page shows the statistics of Wi-Fi traffic.



**Figure 4-59: Wi-Fi Statistics**

## 4.4.7 Connection Status

This page shows the host names and MAC address of all the clients in your network

| Client List |      |             |        |                |
|-------------|------|-------------|--------|----------------|
| No.         | Name | MAC Address | Signal | Connected Time |

**Figure 4-60:** Connection Status

| Object         | Description                                        |
|----------------|----------------------------------------------------|
| Name           | Display the host name of connected clients.        |
| MAC Address    | Display the MAC address of connected clients.      |
| Signal         | Display the connected signal of connected clients. |
| Connected Time | Display the connected time of connected clients.   |

## 4.5 Maintenance

The Maintenance menu provides the following features for managing the system



**Figure 4-61:** Maintenance

| Object                            | Description                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Administrator</b>              | Allows changing the login username and password.                                                                            |
| <b>Date &amp; Time</b>            | Allows setting Date & Time function.                                                                                        |
| <b>Save/Restore Configuration</b> | Export the router's configuration to local or USB sticker.<br>Restore the router's configuration from local or USB sticker. |
| <b>Firmware Upgrade</b>           | Upgrade the firmware from local or USB storage.                                                                             |
| <b>Reboot / Reset</b>             | Reboot or reset the system.                                                                                                 |
| <b>Auto Reboot</b>                | Allows setting auto-reboot schedule.                                                                                        |
| <b>Diagnostics</b>                | Allows you to issue ICMP PING packets to troubleshoot IP.                                                                   |

### 4.5.1 Administrator

To ensure the router's security is secure, you will be asked for your password when you access the router's Web-based utility. The default user name and password are "**admin**". This page will allow you to modify the user name and passwords as shown in [Figure 4-62](#).

Account Password

|                  |                                                        |
|------------------|--------------------------------------------------------|
| Username         | <input style="width: 90%;" type="text" value="admin"/> |
| Password         | <input style="width: 90%;" type="password"/>           |
| Confirm Password | <input style="width: 90%;" type="password"/>           |

Apply Settings
Cancel Changes

**Figure 4-62: Administrator**

| Object                  | Description           |
|-------------------------|-----------------------|
| <b>Username</b>         | Input a new username. |
| <b>Password</b>         | Input a new password. |
| <b>Confirm Password</b> | Input password again. |

## 4.5.2 Date and Time

This section assists you in setting the system time of the router. You are able to either select to set the time and date manually or automatically obtain the GMT time from Internet as shown in [Figure 4-63](#).

Date and Time

Current Time

Year  Month  Day  Hour  Minute  Second

Time Zone Select

NTP Client Update

☐ Enable ☒ Disable

NTP Server

**Figure 4-63:** Date and Time

| Object                   | Description                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Current Time</b>      | Show the current time.<br>User is able to set time and date manually.                                           |
| <b>Time Zone Select</b>  | Select the time zone of the country you are currently in. The router will set its time based on your selection. |
| <b>NTP Client Update</b> | Once this function is enabled, router will automatically update current time from NTP server.                   |
| <b>NTP Server</b>        | User may use the default NTP sever or input NTP server manually.                                                |

### 4.5.3 Saving/Restoring Configuration

This page shows the status of the configuration. You may save the setting file to either USB storage or PC and load the setting file from USB storage or PC as [Figure 4-64](#) is shown below:

**Save/Restore Configuration**

Configuration Export

Configuration Import

No file chosen

**Figure 4-64: Save/Restore Configuration**

#### ■ Save Setting to PC

| Object                      | Description                                                                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Configuration Export</b> | Press the <input type="button" value="Export"/> button to save setting file to PC.                                                                                                      |
| <b>Configuration Import</b> | Press the <input type="button" value="Choose File"/> button to select the setting file, and then press the <input type="button" value="Import"/> button to upload setting file from PC. |

## 4.5.4 Firmware Upgrading

This page provides the firmware upgrade of the router as shown in [Figure 4-65](#).

| Firmware Information |                |
|----------------------|----------------|
| Firmware Version     | v2.2102b210922 |
| Last Upgrade Date    | N/A            |

| Firmware Upgrade                       |                                                           |
|----------------------------------------|-----------------------------------------------------------|
| Select File                            | <input type="button" value="Choose File"/> No file chosen |
| <input type="button" value="Upgrade"/> |                                                           |

**Figure 4-65:** Firmware upgrade

| Object             | Description                                     |
|--------------------|-------------------------------------------------|
| <b>Choose File</b> | Press the button to select the firmware.        |
| <b>Upgrade</b>     | Press the button to upgrade firmware to system. |

### 4.5.5 Reboot / Reset

This page enables the device to be rebooted from a remote location. Once the Reboot button is pressed, users have to re-log in the Web interface as [Figure 4-66](#) is shown below:

Reboot / Reset

Reboot Button

Reset Button

☐ I'd like to keep the network profiles.  
Keep your current network profiles and reset all other configuration to factory defaults.

Reboot

Reset to Default

**Figure 4-66:** Reboot/Reset

| Object                                        | Description                                                                                                                                                                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reboot</b>                                 | Press the button to reboot system.                                                                                                                                                                                                               |
| <b>Reset</b>                                  | Press the button to restore all settings to factory default settings.                                                                                                                                                                            |
| <b>I'd like to keep the network profiles.</b> | Check the box and then press the <span style="border: 1px solid #ccc; padding: 2px 10px; background-color: #f0f0f0;">Reset to Default</span> button to keep the current network profiles and reset all other configurations to factory defaults. |

## 4.5.6 Auto Reboot

**Auto Reboot**

Auto Reboot

☐ Enable ☒ Disable

Reboot Type

☐ Daily based ☒ Selected Week Day  
☐ Monday ☐ Tuesday ☐ Wednesday ☐ Thursday ☐ Friday  
☐ Saturday ☐ Sunday

Time

:  (HH/MM)

Apply Settings

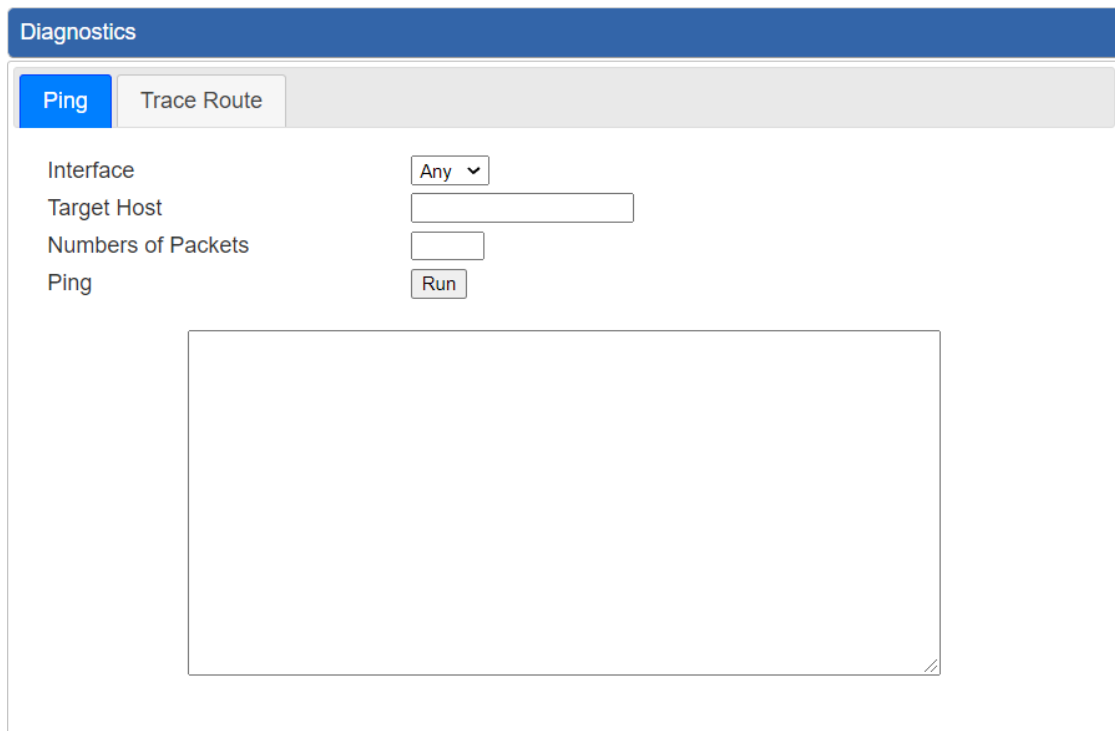
Cancel Changes

**Figure 4-67:** Auto Reboot

| Object             | Description                                 |
|--------------------|---------------------------------------------|
| <b>Auto Reboot</b> | Disable or enable the Auto Reboot function. |
| <b>Reboot Type</b> | Set the function type.                      |
| <b>Time</b>        | Select reboot time for clock                |

## 4.5.7 Diagnostics

The page allows you to issue ICMP PING packets to troubleshoot IP connectivity issues. After you press “Ping”, ICMP packets are transmitted, and the sequence number and roundtrip time are displayed upon reception of a reply. The Page refreshes automatically until responses to all packets are received, or until a timeout occurs. The ICMP Ping is shown in [Figure 4-68](#).



**Figure 4-68:** Ping

| Object                   | Description                                                             |
|--------------------------|-------------------------------------------------------------------------|
| <b>Interface</b>         | Select an interface of the router.                                      |
| <b>Target Host</b>       | The destination IP Address or domain.                                   |
| <b>Number of Packets</b> | Set the number of packets that will be transmitted; the maximum is 100. |
| <b>Ping</b>              | The time of ping.                                                       |

Diagnostics

Ping
Trace Route

Target Host

Trace

**Figure 4-69: Trace Route**

| Object             | Description                           |
|--------------------|---------------------------------------|
| <b>Target Host</b> | The destination IP Address or domain. |
| <b>Trace</b>       | The time of ping.                     |



Be sure the target IP address is within the same network subnet of the router, or you have to set up the correct gateway IP address.

## Chapter 5. Quick Connection to a Wireless Network

In the following sections, the **default SSID** of the WDAP-3600BE is configured to “**default**”.

### 5.1 Windows 7/8/10/11 (WLAN AutoConfig)

WLAN AutoConfig service is built-in in Windows 7 that can be used to detect and connect to wireless network. This built-in wireless network connection tool is similar to wireless zero configuration tool in Windows XP.

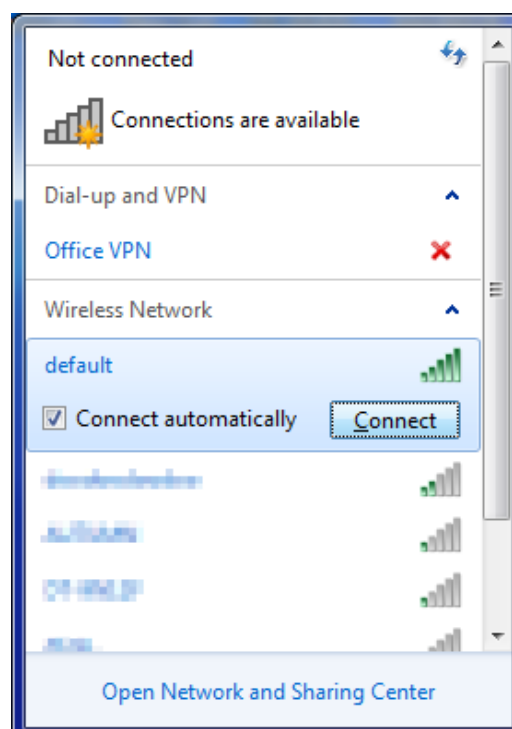
**Step 1:** Right-click on the **network icon** displayed in the system tray



**Figure 5-1** Network Icon

**Step 2:** Highlight and select the wireless network (SSID) to connect

- (1) Select SSID [**default**]
- (2) Click the [**Connect**] button



**Figure 5-2** WLAN AutoConfig



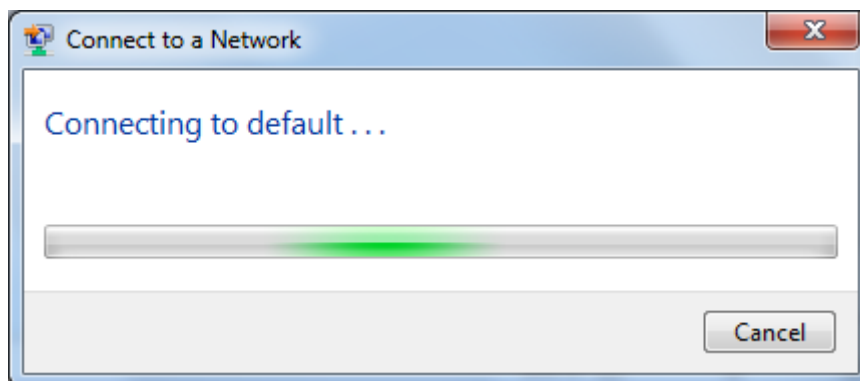
If you will be connecting to this Wireless AP in the future, check [**Connect automatically**].

**Step 3:** Enter the **encryption key** of the wireless AP

- (1) The Connect to a Network box will appear.
- (2) Enter the encryption key that is configured in [section 5.7.2.1](#)
- (3) Click the [OK] button.

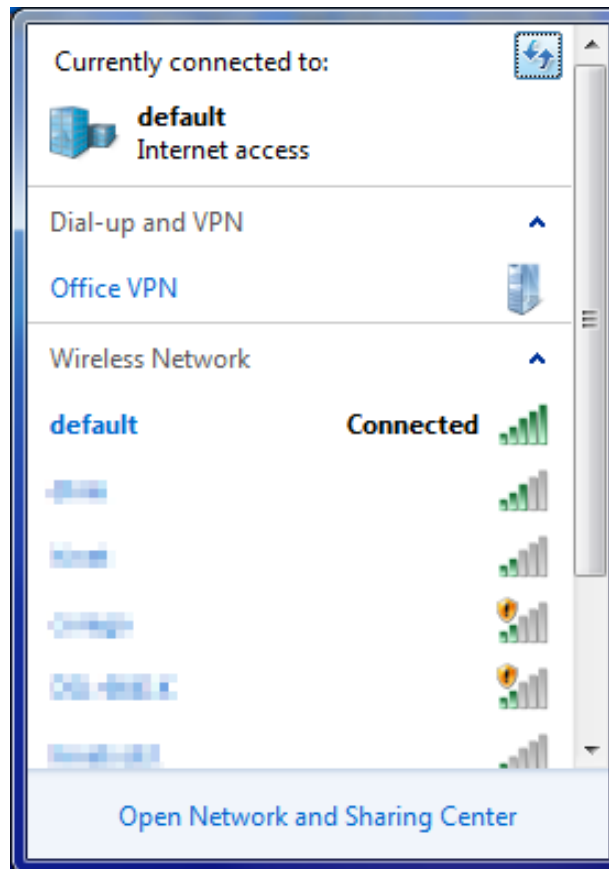


**Figure 5-3** Typing the Network Key



**Figure 5-4** Connecting to a Network

**Step 4:** Check if **“Connected”** is displayed.



**Figure 5-5** Connected to a Network

## 5.2 Mac OS X 10.x

In the following sections, the default SSID of the WDAP series is configured to “default”.

**Step 1:** Right-click on the **network icon** displayed in the system tray

The AirPort Network Connection menu will appear.



**Figure 5-6** Mac OS – Network Icon

**Step 2:** Highlight and select the wireless network (SSID) to connect

- (1) Select and SSID [**default**].
- (2) Double-click on the selected SSID.



**Figure 5-7** Highlighting and Selecting the Wireless Network

**Step 3:** Enter the **encryption key** of the wireless AP

- (1) Enter the encryption key that is configured in [section 5.7.2.1](#)
- (2) Click the [OK] button.



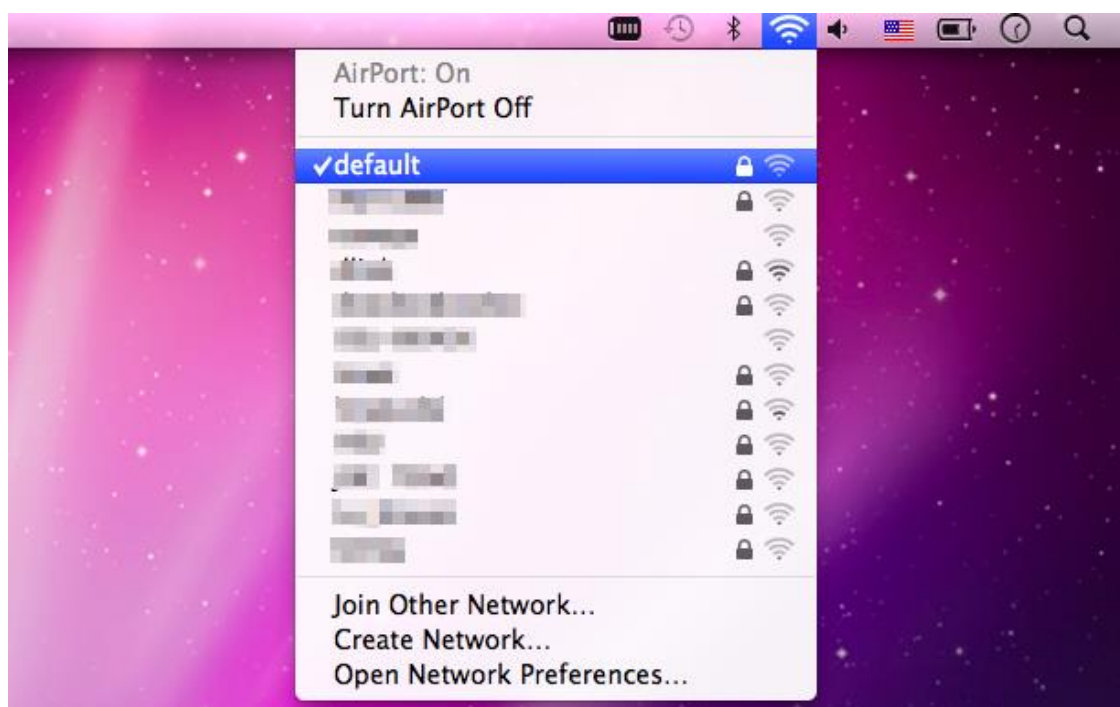
**Figure 5-8** Enter the Password



If you will be connecting to this Wireless AP in the future, check [**Remember this network**].

**Step 4:** Check if the AirPort is connected to the selected wireless network.

If “Yes”, then there will be a “check” symbol in front of the SSID.



**Figure 5-9** Connected to the Network

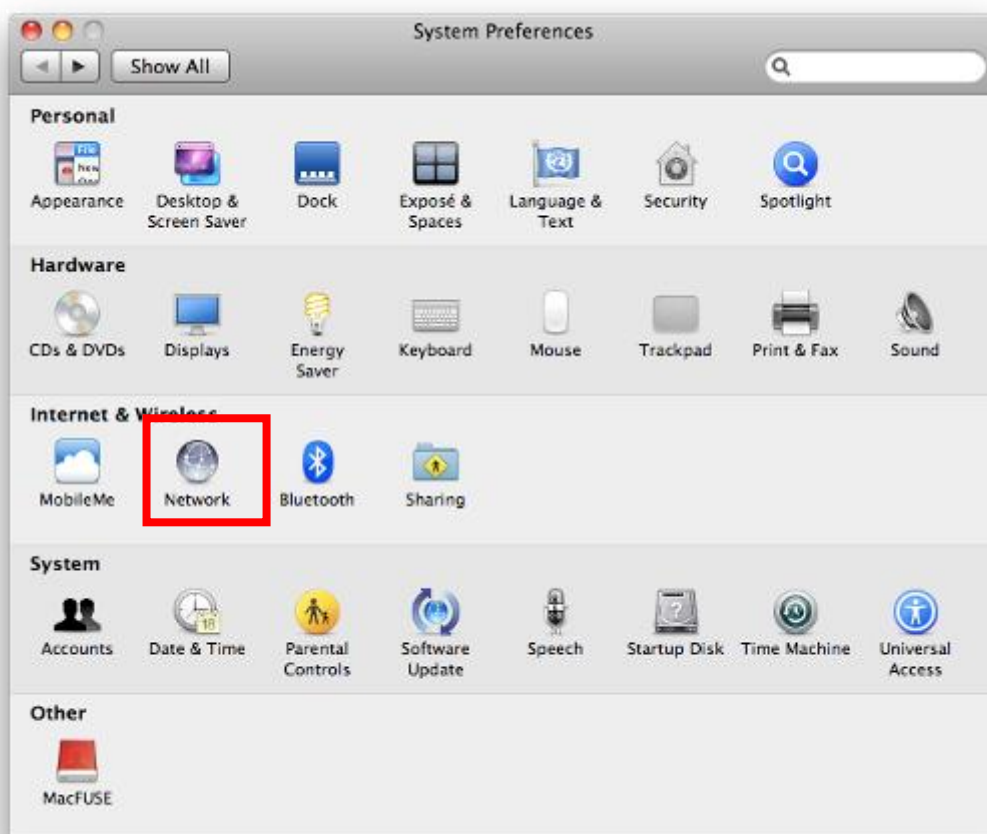
There is another way to configure the MAC OS X wireless settings:

**Step 1:** Click and open the [System Preferences] by going to **Apple > System Preference** or **Applications**



**Figure 5-10** System Preferences

**Step 2:** Open **Network Preference** by clicking on the [Network] icon

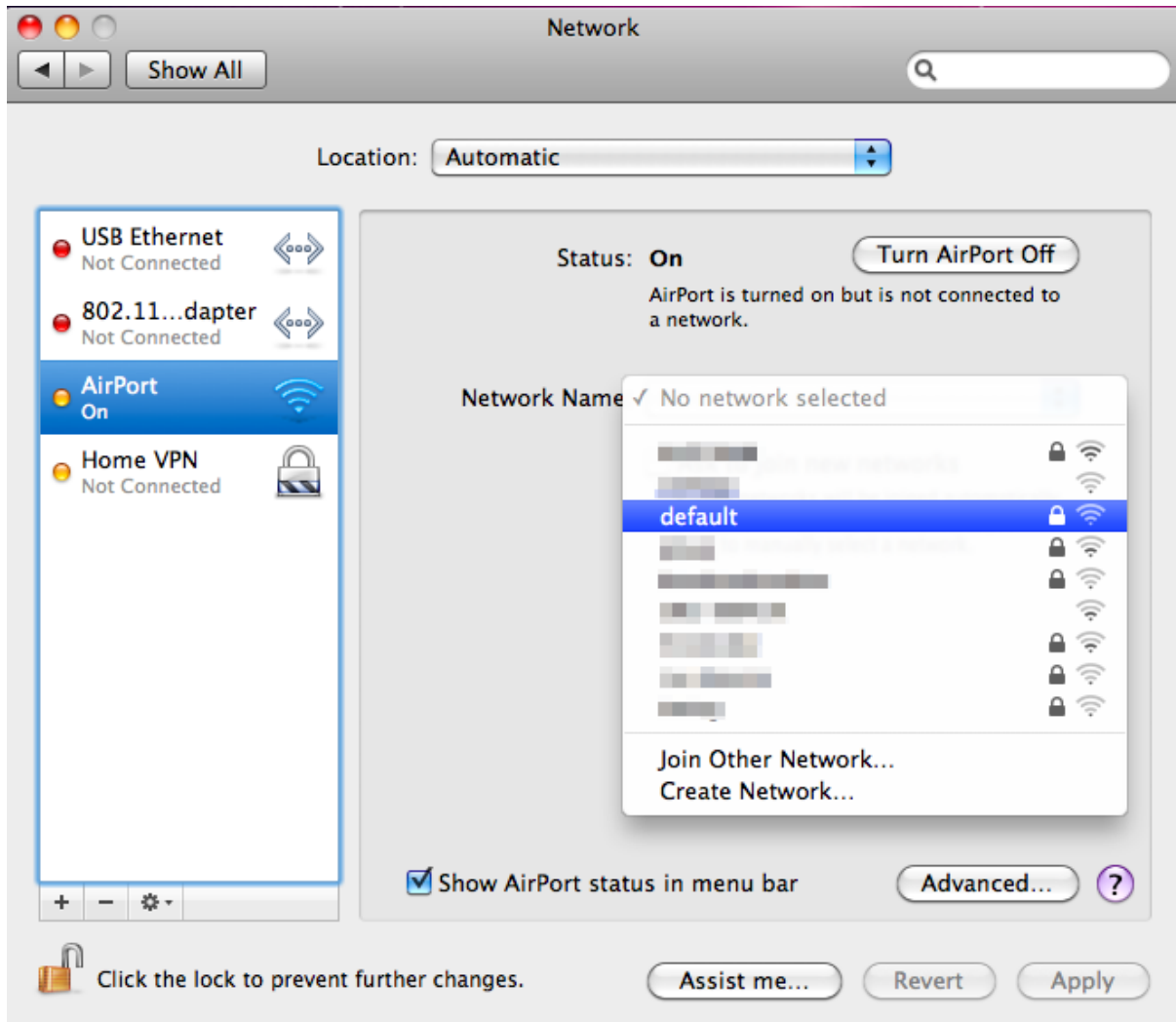


**Figure 5-11** System Preferences -- Network

**Step 3:** Check Wi-Fi setting and select the available wireless network

- (1) Choose the **AirPort** on the left menu (make sure it is ON)
- (2) Select Network Name [**default**] here

If this is the first time to connect to the Wireless AP, it should show “No network selected”.



**Figure 5-12** Selecting the Wireless Network

## 5.3 iPhone/iPod Touch/iPad

In the following sections, the **default SSID** of the WDAP series is configured to “**default**”.

**Step 1:** Tap the [Settings] icon displayed in the home screen



Figure 5-13 iPhone – Settings icon

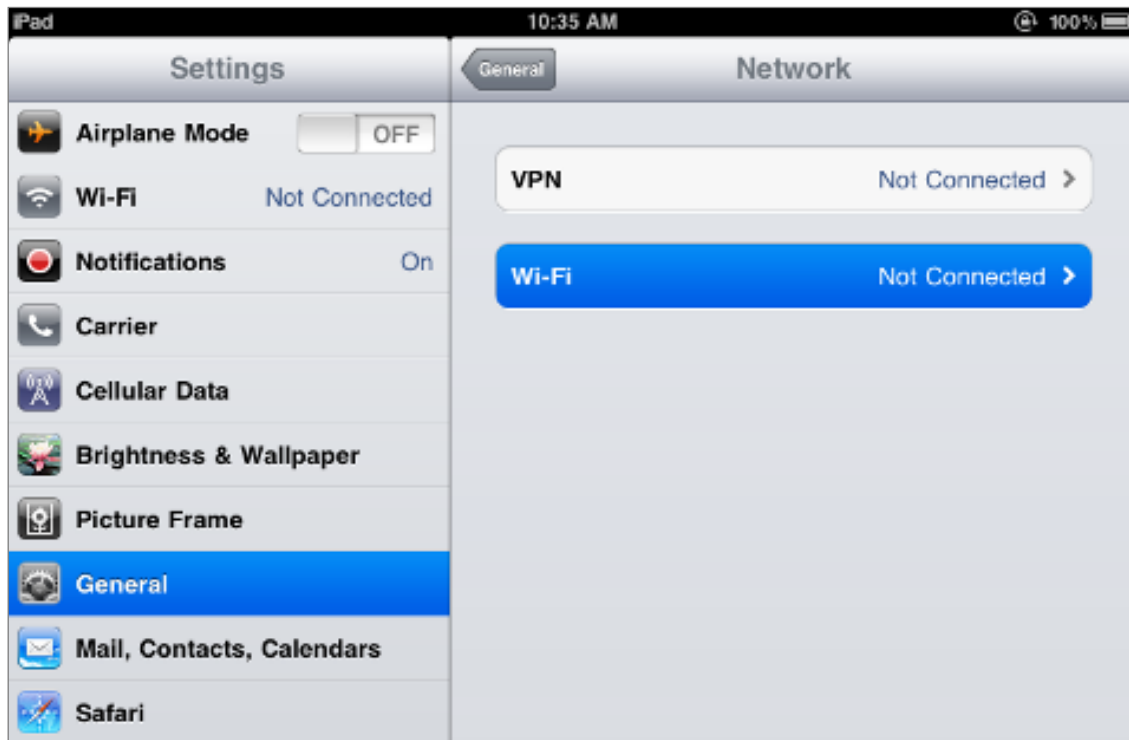
**Step 2:** Check Wi-Fi setting and select the available wireless network

- (1) Tap [General] \ [Network]
- (2) Tap [Wi-Fi]

If this is the first time to connect to the Wireless AP, it should show “Not Connected”.



Figure 5-14 Wi-Fi Setting



**Figure 5-15** Wi-Fi Setting – Not Connected

**Step 3:** Tap the target wireless network (SSID) in “Choose a Network...”

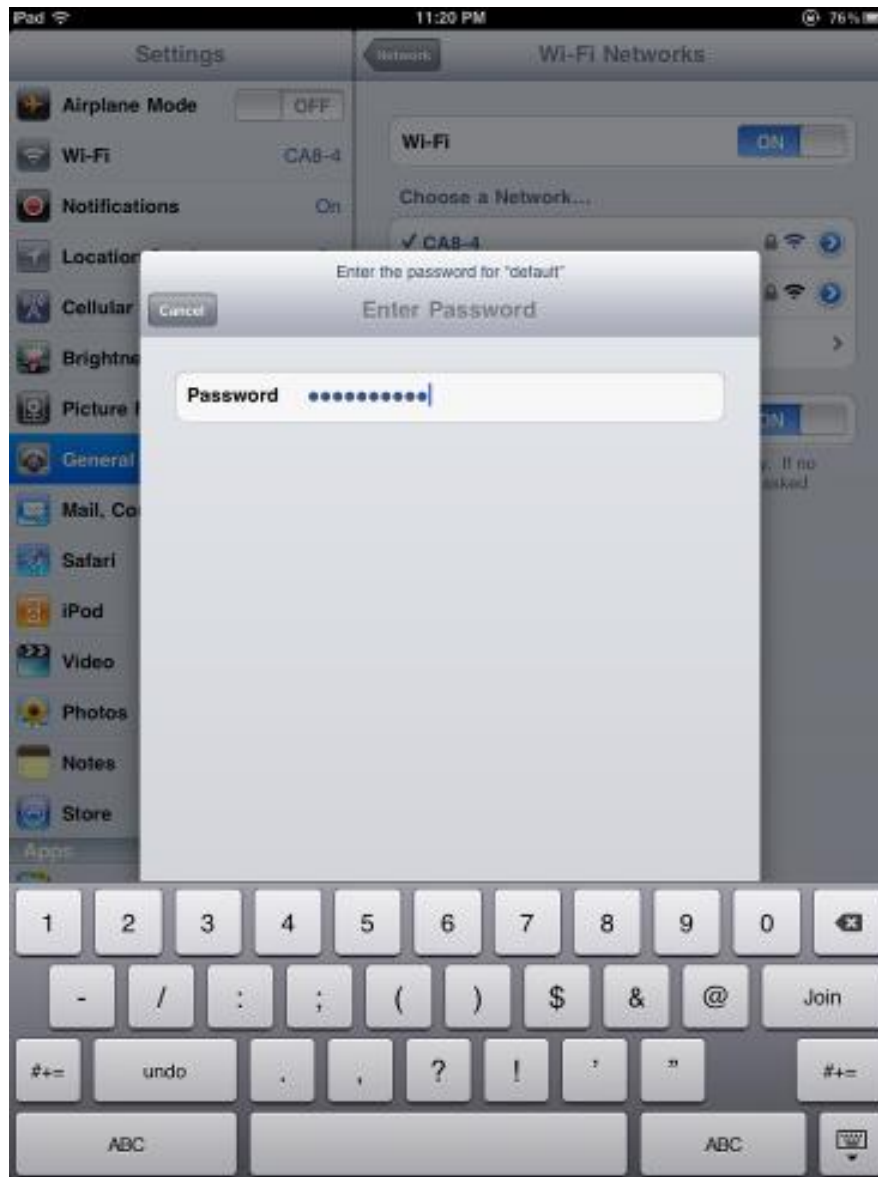
- (1) Turn on Wi-Fi by tapping “Wi-Fi”
- (2) Select SSID [default]



**Figure 5-16** Turning on Wi-Fi

**Step 4:** Enter the **encryption key** of the Wireless AP

- (1) The password input screen will be displayed.
- (2) Enter the encryption key that is configured in [section 5.7.2.1](#)
- (3) Tap the **[Join]** button.



**Figure 5-17** iPhone -- Entering the Password

**Step 5:** Check if the device is connected to the selected wireless network.

If “Yes”, then there will be a “check” symbol in front of the SSID.



**Figure 5-18** iPhone -- Connected to the Network

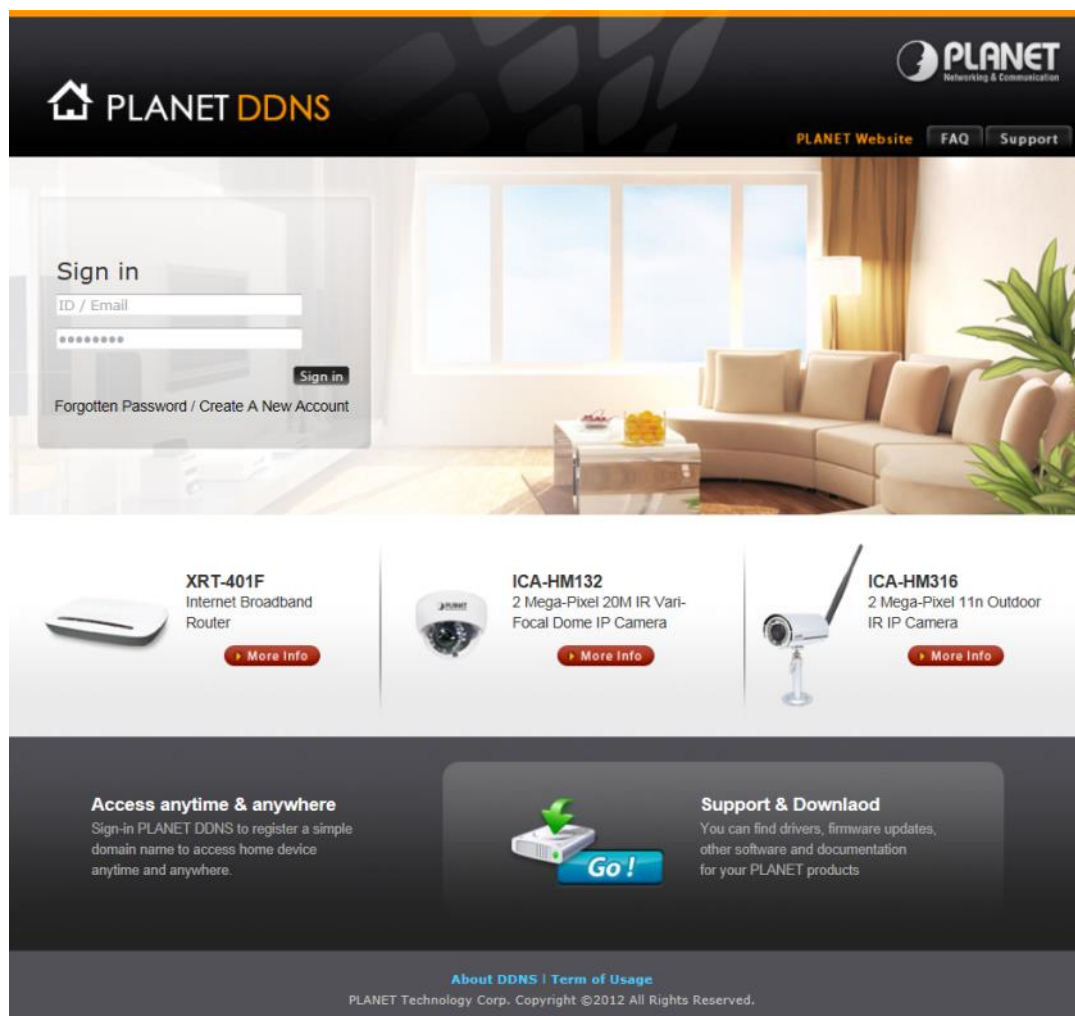
# Appendix A: DDNS Application

Configuring **PLANET** DDNS steps:

**Step 1:** Visit DDNS provider's web site and register an account if you do not have one yet. For example, register an account at <http://planetddns.com>

**Step 2:** Enable DDNS option through accessing web page of the device.

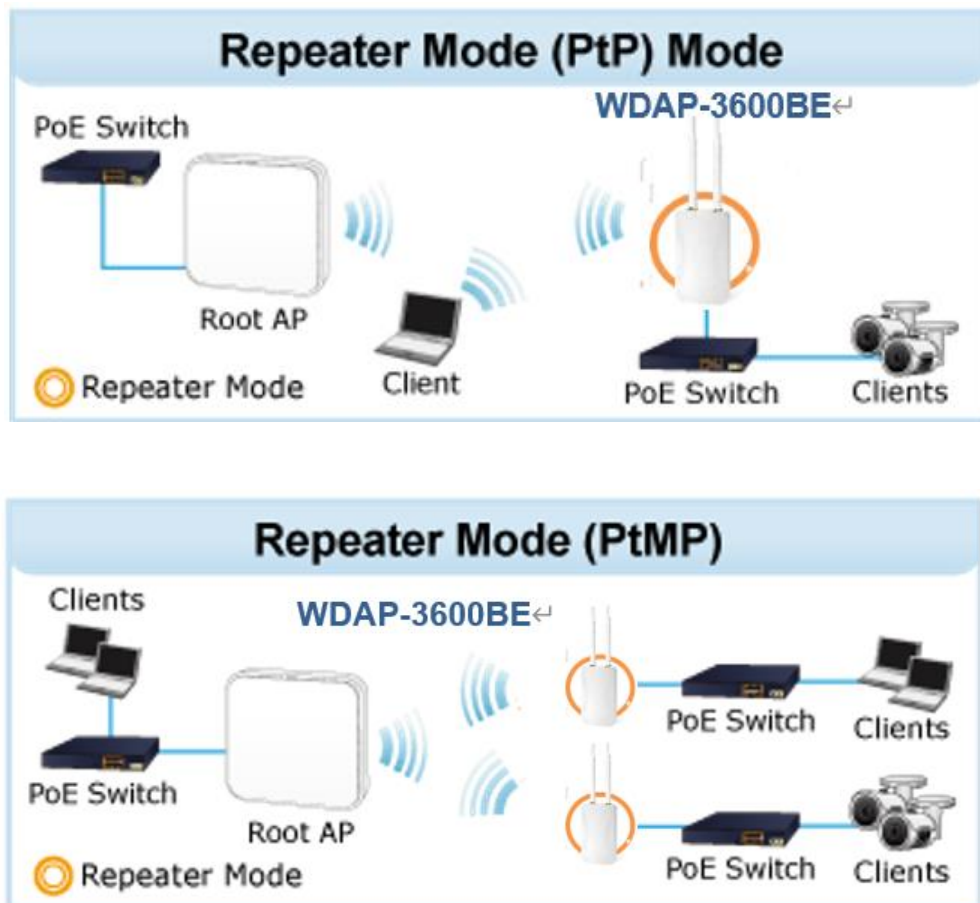
**Step 3:** Input all DDNS settings.



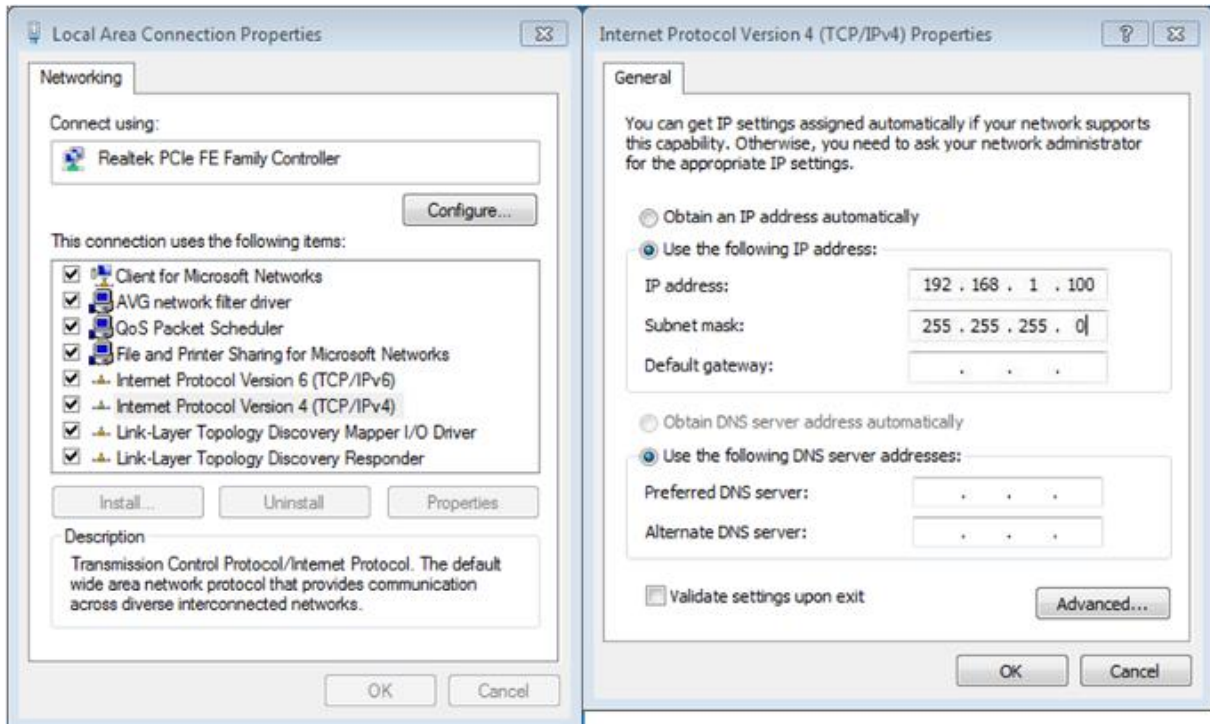
## Appendix B: FAQs

### How to Set Up the AP Client Connection

Topology (The topology below uses the WDAP-3600BE as an example):



**Step 1.** Use static IP in the PCs that are connected with AP-1(Site-1) and AP-2(Site-2). In this case, Site-1 is “192.168.1.100”, and Site-2 is “192.168.1.200”.



**Step 2.** In AP-2, change the default IP to the same IP range but different from AP-1. In this case, the IP is changed to 192.168.1.252.

#### LAN Configuration

|               |               |
|---------------|---------------|
| IP Address    | 192.168.1.252 |
| Netmask       | 255.255.255.0 |
| Gateway       | 192.168.1.1   |
| Primary DNS   | 8.8.8.8       |
| Secondary DNS | 8.8.4.4       |

Apply Settings

Cancel Changes

**Step 3.** In AP-1, go to “**Wizard**” to configure it to **AP Mode**. In AP-2, configure it to **Repeater Mode**.

AP-1



AP-2



**Step 4.** In AP-2, press “**Scan**” to search the AP-1. You can also enter the MAC address, SSID, encryption and bandwidth if you know what they are.

**STEP 3 - Network Interface Wireless Connection**

1

2

3

4

5

Mode

LAN

Wireless Connection

Wireless

Completed

Select Radio

Use 5GHz Radio

SSID

Scan

Lock BSSID

☐ Enable
 ☒ Disable

BSSID

Encryption

Open

Cancel

Previous

Next

**Step 5.** Click “Next” to finish the setting.

### STEP 4 - Network Interface Wireless

1

2

3

4

5

Mode

LAN

Wireless Connection

Wireless

Completed

2.4G WiFi Status

☒ Enable
 ☐ Disable

SSID

PLANET\_2.4G

Hide SSID

☐ Enable
 ☒ Disable

Bandwidth

20MHz

Channel

6

Encryption

Open

5G WiFi Status

☒ Enable
 ☐ Disable

SSID

PLANET\_5G

Hide SSID

☐ Enable
 ☒ Disable

Bandwidth

80MHz

Channel

36

Encryption

Open

Cancel

Previous

Next

**Step 6.** Setup Completed

### STEP 5 - Setup Completed

1

2

3

4

5

Mode

LAN

Wireless Connection

Wireless

Completed

Operation Mode

Repeater Mode

LAN

Enable: Static IP: 192.168.1.97 / 255.255.255.0

2.4G WiFi

Enable: ON   SSID: PLANET\_2.4G   Bandwidth: 20MHz   Channel: 6   Encryption: Open   Hide SSID: Disable

5G WiFi

Enable: ON   SSID: PLANET\_5G   Bandwidth: 80MHz   Channel: 36   Encryption: Open   Hide SSID: Disable

Previous

Finish

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**Step 7.** Use command line tool to ping each other to ensure the link is successfully established.

From Site-1, ping 192.168.1.200; and in Site-2, ping 192.168.1.100.

```

C:\WINDOWS\system32\CMD.exe - ping 192.168.1.100 -t
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.

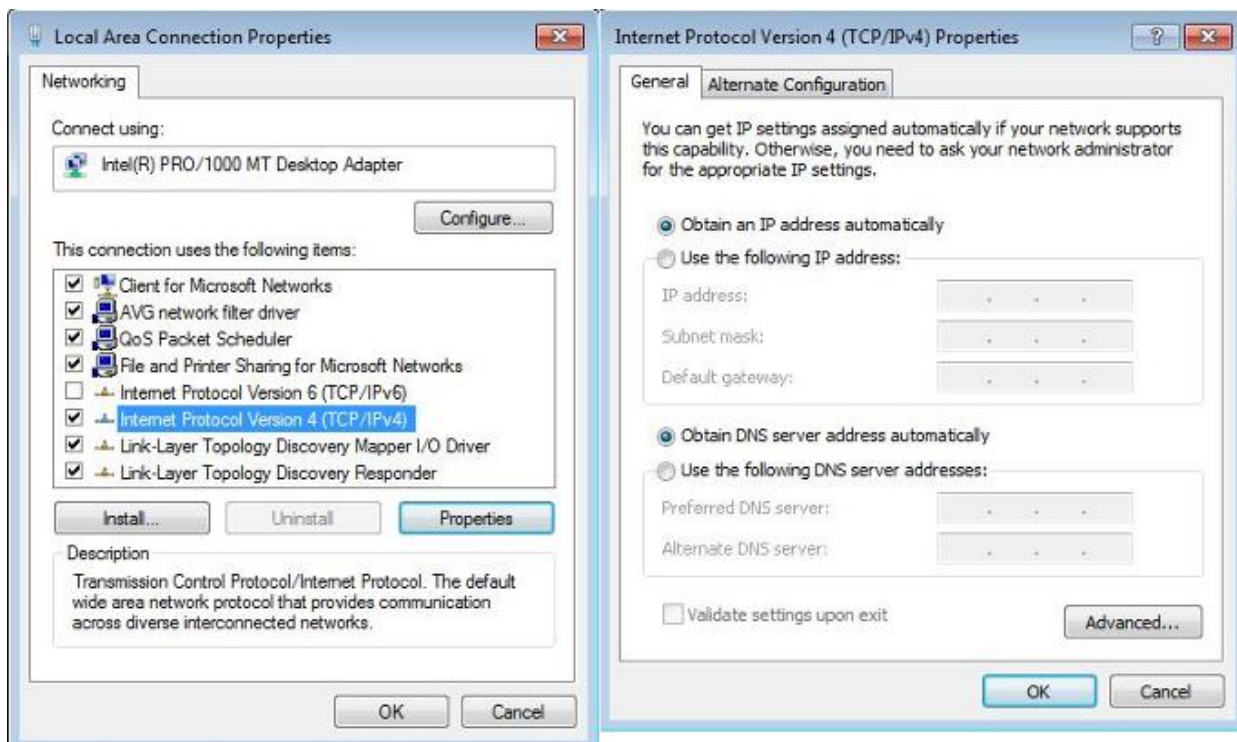
Ping statistics for 192.168.0.100:
    Packets: Sent = 25, Received = 0, Lost = 25 (100% loss),
^C
C:\Documents and Settings\Administrator>ping 192.168.1.100 -t

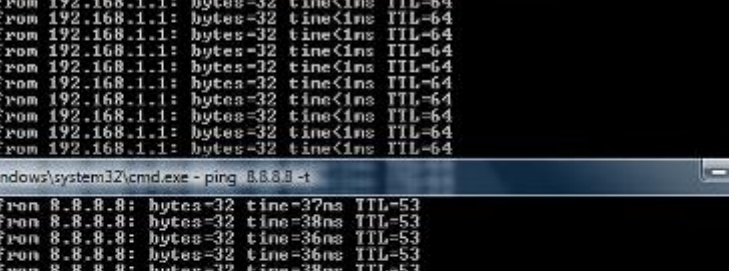
Pinging 192.168.1.100 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.100: bytes=32 time=7ms TTL=128
Reply from 192.168.1.100: bytes=32 time=1ms TTL=128
Reply from 192.168.1.100: bytes=32 time=2ms TTL=128
Reply from 192.168.1.100: bytes=32 time=1ms TTL=128
Reply from 192.168.1.100: bytes=32 time=2ms TTL=128
Reply from 192.168.1.100: bytes=32 time=2ms TTL=128
Reply from 192.168.1.100: bytes=32 time=1ms TTL=128
Reply from 192.168.1.100: bytes=32 time=1ms TTL=128
Reply from 192.168.1.100: bytes=32 time=1ms TTL=128

```

**Step 8.** Configure the TCP/IP settings of Site-2 to “Obtain an IP address automatically”.





The screenshot displays two Windows command prompt windows. The top window shows the command `C:\Windows\system32\cmd.exe - ping 192.168.1.1 -t` and its output, which consists of 10 successful ping replies to 192.168.1.1, each with a time of 32ms and TTL=64. The bottom window shows the command `C:\Windows\system32\cmd.exe - ping 8.8.8.8 -t` and its output, which consists of 20 successful ping replies to 8.8.8.8, each with a time of 32ms and TTL=53.

```
C:\Windows\system32\cmd.exe - ping 192.168.1.1 -t

Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64

C:\Windows\system32\cmd.exe - ping 8.8.8.8 -t

Reply from 8.8.8.8: bytes=32 time=32ms TTL=53
Reply from 8.8.8.8: bytes=32 time=38ms TTL=53
Reply from 8.8.8.8: bytes=32 time=36ms TTL=53
Reply from 8.8.8.8: bytes=32 time=36ms TTL=53
Reply from 8.8.8.8: bytes=32 time=38ms TTL=53
Reply from 8.8.8.8: bytes=32 time=37ms TTL=53
Reply from 8.8.8.8: bytes=32 time=36ms TTL=53
Reply from 8.8.8.8: bytes=32 time=38ms TTL=53
Reply from 8.8.8.8: bytes=32 time=38ms TTL=53
Reply from 8.8.8.8: bytes=32 time=37ms TTL=53
Reply from 8.8.8.8: bytes=32 time=36ms TTL=53
Reply from 8.8.8.8: bytes=32 time=37ms TTL=53
Reply from 8.8.8.8: bytes=32 time=36ms TTL=53
Reply from 8.8.8.8: bytes=32 time=37ms TTL=53
Reply from 8.8.8.8: bytes=32 time=36ms TTL=53
Reply from 8.8.8.8: bytes=32 time=37ms TTL=53
Reply from 8.8.8.8: bytes=32 time=36ms TTL=53
Reply from 8.8.8.8: bytes=32 time=37ms TTL=53
Reply from 8.8.8.8: bytes=32 time=37ms TTL=53
```

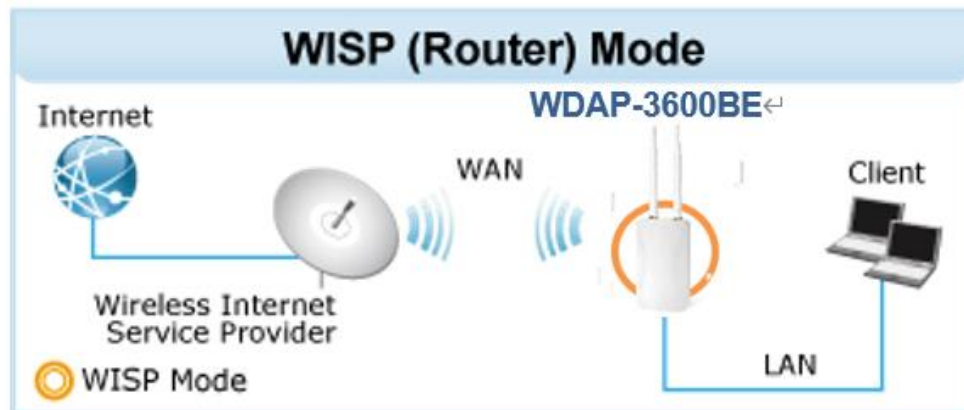


Note

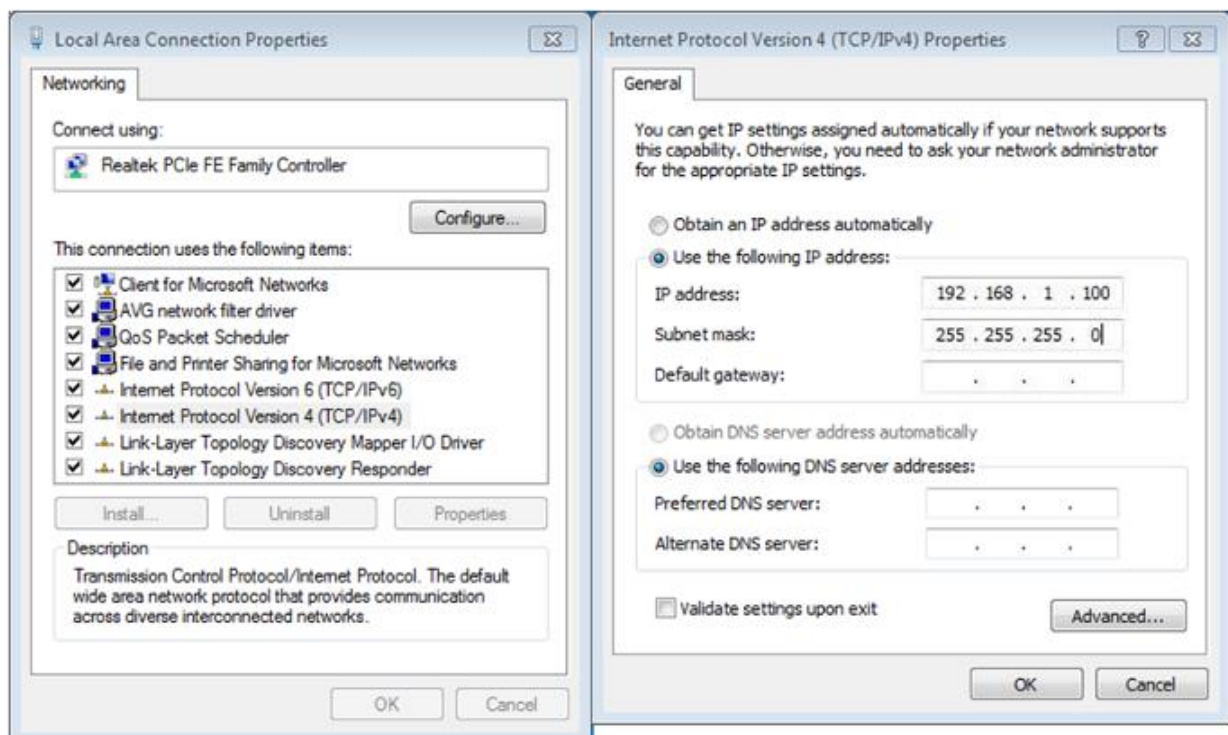
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## How to Set Up WISP Connection

Topology (The topology below uses the WDAP-3600BE as an example):



**Step 1.** Use static IP in the PC (Client) that is connected with the AP. In this case, the IP address of client is “192.168.1.100”.



**Step 2.** In AP, go to “Wizard” to configure it in **WISP Mode**.



Gateway Mode

▼ Current Mode



WISP Mode



AP Mode



Repeater Mode



In this mode, all Ethernet ports are bridged together and wireless client will connect ISP access point. The NAT is enabled and PCs in Ethernet port share the same IP to ISP through wireless LAN. You must set the wireless to client mode first and connect to the ISP AP in Wireless Connection page. The connection type can be set in WAN page by using L2TP, PPTP, PPPoE, DHCP client and static IP.

**Step 3.** Press “Scan” to search the **Wi-Fi of WAN devices**. You can also enter the MAC address, SSID, encryption and bandwidth if you know what they are.

**STEP 4 - Network Interface Wireless Connection**

1 Mode
2 LAN
3 WAN
4 Wireless Connection
5 Wireless
6 Security
7 Completed

Select Radio

SSID

Lock BSSID

BSSID

Encryption

Use 5GHz Radio ▼

Scan

☐ Enable ☒ Disable

Open ▼

**Step 4.** Click “Next” to finish the setting.

**STEP 5 - Network Interface Wireless**

1 Mode
2 LAN
3 WAN
4 Wireless Connection
5 Wireless
6 Security
7 Completed

2.4G WiFi Status

SSID

Hide SSID

Bandwidth

Channel

Encryption

5G WiFi Status

SSID

Hide SSID

Bandwidth

Channel

Encryption

☒ Enable ☐ Disable

PLANET\_2.4G\_11AX

☐ Enable ☒ Disable

11 AX 20/40MHz ▼

6 ▼

Open ▼

☒ Enable ☐ Disable

PLANET\_5G\_11AX

☐ Enable ☒ Disable

11 AX 20/40/80MHz ▼

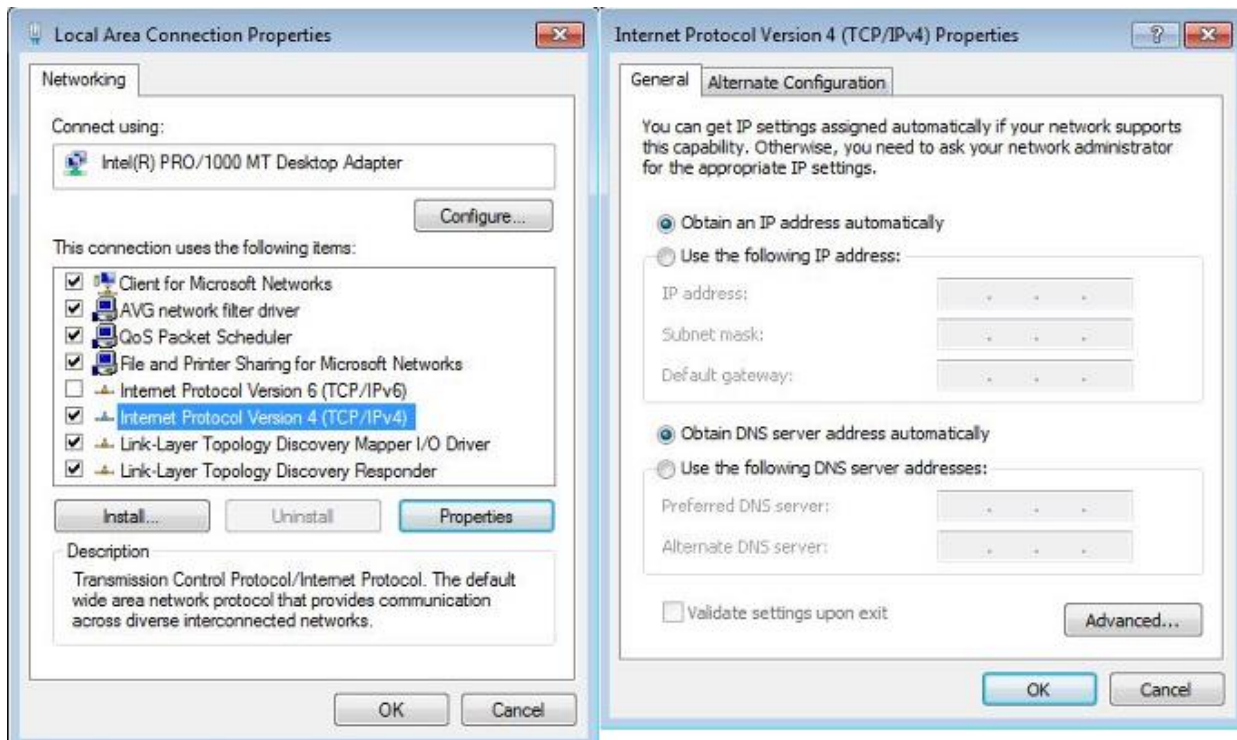
36 ▼

Open ▼

Cancel
Previous
Next



**Step 7.** Configure the TCP/IP settings of PC to “Obtain an IP address automatically”.



**Step 8.** Use command line tool to ping the DNS (e.g., Google) to ensure client can access internet through the wireless connection.

```
C:\>ping 8.8.8.8 -t

Pinging 8.8.8.8 with 32 bytes of data:
Reply from 8.8.8.8: bytes=32 time=26ms TTL=54
Reply from 8.8.8.8: bytes=32 time=21ms TTL=54
Reply from 8.8.8.8: bytes=32 time=19ms TTL=54
Reply from 8.8.8.8: bytes=32 time=20ms TTL=54
Reply from 8.8.8.8: bytes=32 time=19ms TTL=54
Reply from 8.8.8.8: bytes=32 time=22ms TTL=54
Reply from 8.8.8.8: bytes=32 time=23ms TTL=54
Reply from 8.8.8.8: bytes=32 time=27ms TTL=54
Reply from 8.8.8.8: bytes=32 time=21ms TTL=54
Reply from 8.8.8.8: bytes=32 time=20ms TTL=54
Reply from 8.8.8.8: bytes=32 time=21ms TTL=54
Reply from 8.8.8.8: bytes=32 time=20ms TTL=54
Reply from 8.8.8.8: bytes=32 time=20ms TTL=54
Reply from 8.8.8.8: bytes=32 time=21ms TTL=54
```



The following hints should be noted:

- 1) The encryption method must be the same as that of both sites if configured.
- 2) Both sites should be Line-of-Sight.
- 3) For the short distance connection less than 1km, please reduce the "RF Output Power" of both sites.
- 4) For the long distance connection over 1km, please adjust the "Distance" to the actual distance or double the actual distance.

## Appendix C: Troubleshooting

If you find the AP is working improperly or stop responding to you, please read this troubleshooting first before contacting the dealer for help. Some problems can be solved by yourself within a very short time.

| Scenario                                                                | Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The AP is not responding to me when I want to access it by Web browser. | <ul style="list-style-type: none"> <li>a. Please check the connection of the power cord and the Ethernet cable of this AP. All cords and cables should be correctly and firmly inserted into the AP.</li> <li>b. If all LEDs on this AP are off, please check the status of power adapter, and make sure it is correctly powered.</li> <li>c. You must use the same IP address section which AP uses.</li> <li>d. Are you using MAC or IP address filter? Try to connect the AP by another computer and see if it works; if not, please reset the AP to the factory default settings by pressing the 'reset' button for over 7 seconds.</li> <li>e. Use the Smart Discovery Tool to see if you can find the AP or not.</li> <li>f. If you did a firmware upgrade and this happens, contact your dealer of purchase for help.</li> <li>g. If all the solutions above don't work, contact the dealer for help.</li> </ul> |
| I can't get connected to the Internet.                                  | <ul style="list-style-type: none"> <li>a. Go to 'Status' -&gt; 'Internet Connection' menu on the router connected to the AP, and check Internet connection status.</li> <li>b. Please be patient. Sometimes Internet is just that slow.</li> <li>c. If you've connected a computer to Internet directly before, try to do that again, and check if you can get connected to Internet with your computer directly attached to the device provided by your Internet service provider.</li> <li>d. Check PPPoE / L2TP / PPTP user ID and password entered in the router's settings again.</li> <li>e. Call your Internet service provider and check if there's something wrong with their service.</li> <li>f. If you just can't connect to one or more website, but you can still use other internet services, please check</li> </ul>                                                                                    |

| Scenario                                                              | Solution                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                       | <p>URL/Keyword filter.</p> <p>g. Try to reset the AP and try again later.</p> <p>h. Reset the device provided by your Internet service provider too.</p> <p>i. Try to use IP address instead of host name. If you can use IP address to communicate with a remote server, but can't use host name, please check DNS setting.</p>                                                                                  |
| I can't locate my AP by my wireless device.                           | <p>a. 'Broadcast ESSID' set to off?</p> <p>b. Both two antennas are properly secured.</p> <p>c. Are you too far from your AP? Try to get closer.</p> <p>d. Please remember that you have to input ESSID on your wireless client manually, if ESSID broadcast is disabled.</p>                                                                                                                                     |
| File downloading is very slow or breaks frequently.                   | <p>a. Internet is slow sometimes. Please be patient.</p> <p>b. Try to reset the AP and see if it's better after that.</p> <p>c. Try to know what computers do on your local network. If someone's transferring big files, other people will think Internet is really slow.</p> <p>d. If this never happens before, call you Internet service provider to know if there is something wrong with their network.</p> |
| I can't log into the web management interface; the password is wrong. | <p>a. Make sure you're connecting to the correct IP address of the AP.</p> <p>b. Password is case-sensitive. Make sure the 'Caps Lock' light is not illuminated.</p> <p>c. If you really forget the password, do a hard reset.</p>                                                                                                                                                                                |
| The AP becomes hot                                                    | <p>a. This is not a malfunction, if you can keep your hand on the AP's case.</p> <p>b. If you smell something wrong or see the smoke coming out from AP or A/C power adapter, please disconnect the AP and power source from utility power (make sure it's safe before you're doing this), and call your dealer of purchase for help.</p>                                                                         |

## Appendix D: Glossary

**802.11ax** - 802.11ax is a wireless networking standard in the 802.11 family by adding OFDMA, MU-MIMO (which is marketed under the brand name Wi-Fi 6), developed in the IEEE Standards Association process, providing high-throughput wireless local area networks (WLANs) on the 5GHz band 20 、 40 、 80 、 160MHz.

**802.11ac** - 802.11ac is a wireless networking standard in the 802.11 family by adding MU-MIMO (which is marketed under the brand name Wi-Fi 5), developed in the IEEE Standards Association process, providing high-throughput wireless local area networks (WLANs) on the 5GHz band.

**802.11n** - 802.11n builds upon previous 802.11 standards by adding MIMO (multiple-input multiple-output). MIMO uses multiple transmitter and receiver antennas to allow for increased data throughput via spatial multiplexing and increased range by exploiting the spatial diversity, perhaps through coding schemes like Alamouti coding. The Enhanced Wireless Consortium (EWC) [3] was formed to help accelerate the IEEE 802.11n development process and promote a technology specification for interoperability of next-generation wireless local area networking (WLAN) products.

**802.11a** - 802.11a was an amendment to the IEEE 802.11 wireless local network specifications that defined requirements for an orthogonal frequency division multiplexing (OFDM) communication system. It was originally designed to support wireless communication in the unlicensed national information infrastructure (U-NII) bands (in the 5–6 GHz frequency range) as regulated in the United States by the Code of Federal Regulations, Title 47, Section 15.407.

**802.11b** - The 802.11b standard specifies a wireless networking at 11 Mbps using direct-sequence spread-spectrum (DSSS) technology and operating in the unlicensed radio spectrum at 2.4GHzHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.

**802.11g** - specification for wireless networking at 54 Mbps using direct-sequence spread-spectrum (DSSS) technology, using OFDM modulation and operating in the unlicensed radio spectrum at 2.4GHzHz, and backward compatibility with IEEE 802.11b devices, and WEP encryption for security.

**DDNS (Dynamic Domain Name System)** - The capability of assigning a fixed host and domain name to a dynamic Internet IP Address.

**DHCP (Dynamic Host Configuration Protocol)** - A protocol that automatically configure the TCP/IP parameters for the all the PC(s) that are connected to a DHCP server.

**DMZ (Demilitarized Zone)** - A Demilitarized Zone allows one local host to be exposed to the Internet for a special-purpose service such as Internet gaming or videoconferencing.

**DNS (Domain Name System)** - An Internet Service that translates the names of websites into IP addresses.

**Domain Name** - A descriptive name for an address or group of addresses on the Internet.

**DSL (Digital Subscriber Line)** - A technology that allows data to be sent or received over existing traditional phone lines.

**MTU (Maximum Transmission Unit)** - The size in bytes of the largest packet that can be transmitted.

**NAT (Network Address Translation)** - NAT technology translates IP addresses of a local area network to a different IP address for the Internet.

**PPPoE (Point to Point Protocol over Ethernet)** - PPPoE is a protocol for connecting remote hosts to the Internet over an always-on connection by simulating a dial-up connection.

**SSID - A Service Set Identification** is a thirty-two character (maximum) alphanumeric key identifying a wireless local area network. For the wireless devices in a network to communicate with each other, all devices must be configured with the same SSID. This is typically the configuration parameter for a wireless PC card. It corresponds to the ESSID in the wireless Access Point and to the wireless network name.

**WEP (Wired Equivalent Privacy)** - A data privacy mechanism based on a 64-bit or 128-bit or 152-bit shared key algorithm, as described in the IEEE 802.11 standard.

**Wi-Fi** - A trade name for the 802.11b wireless networking standard, given by the Wireless Ethernet Compatibility Alliance (WECA, see <http://www.wi-fi.net>), an industry standards group promoting interoperability among 802.11b devices.

**WLAN (Wireless Local Area Network)** - A group of computers and associated devices communicate with each other wirelessly, which network serving users are limited in a local area.

## EC Declaration of Conformity

|             |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                            |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| English     | Hereby, PLANET Technology Corporation, declares that this 11be Wireless AP is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.                                                | Lietuviškai | Šiuo PLANET Technology Corporation,, skelbia, kad 11be Wireless AP tenkina visus svarbiausius 2014/53/EU direktyvos reikalavimus ir kitas svarbias nuostatas.                              |
| Česky       | Společnost PLANET Technology Corporation, tímto prohlašuje, že tato 11be Wireless AP splňuje základní požadavky a další příslušná ustanovení směrnice 2014/53/EU.                                                                 | Magyar      | A gyártó PLANET Technology Corporation, kijelenti, hogy ez a 11be Wireless AP megfelel az 2014/53/EU irányelv alapkövetelményeinek és a kapcsolódó rendelkezéseknek.                       |
| Dansk       | PLANET Technology Corporation, erklærer herved, at følgende udstyr 11be Wireless AP overholder de væsentlige krav og øvrige relevante krav i direktiv 2014/53/EU                                                                  | Malti       | Hawnhekk, PLANET Technology Corporation, jiddikjara li dan 11be Wireless AP jikkonforma mal-<br>ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 2014/53/EU |
| Deutsch     | Hiermit erklärt PLANET Technology Corporation, dass sich dieses Gerät 11be Wireless AP in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 2014/53/EU befindet". (BMWi) | Nederlands  | Hierbij verklaart , PLANET Technology orporation, dat 11be Wireless AP in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/EU            |
| Eestikeeles | Käesolevaga kinnitab PLANET Technology Corporation, et see 11be Wireless AP vastab Euroopa Nõukogu direktiivi 2014/53/EU põhinõuetele ja muudele olulistele tingimustele.                                                         | Polski      | Niniejszym firma PLANET Technology Corporation, oświadcza, że 11be Wireless AP spełnia wszystkie istotne wymogi i klauzule zawarte w dokumencie „Directive 2014/53/EU.                     |
| Ελληνικά    | ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ , PLANET Technology Corporation, ΔΗΛΩΝΕΙ ΟΤΙ ΑΥΤΟ 11be Wireless ΑΡΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/EU                                             | Português   | PLANET Technology Corporation, declara que este 11be Wireless AP está conforme com os requisitos essenciais e outras disposições da Directiva 2014/53/EU.                                  |
| Español     | Por medio de la presente, PLANET Technology Corporation, declara que 11be Wireless AP cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2014/53/EU                   | Slovensky   | Výrobca PLANET Technology Corporation, týmto deklaruje, že táto 11be Wireless AP je v súlade so základnými požiadavkami a ďalšími relevantnými predpismi smernice 2014/53/EU.              |
| Français    | Par la présente, PLANET Technology Corporation, déclare que les appareils du 11be Wireless AP sont conformes aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/EU                         | Slovensko   | PLANET Technology Corporation, s tem potrjuje, da je ta 11be Wireless AP skladen/a z osnovnimi zahtevami in ustreznimi določili Direktive 2014/53/EU                                       |

|          |                                                                                                                                                                                                      |         |                                                                                                                                                                                                         |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Italiano | Con la presente , PLANET Technology Corporation, dichiara che questo 11be Wireless AP è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2014/53/EU. | Suomi   | PLANET Technology Corporation, vakuuttaa täten että 11be Wireless AP tyyppinen laite on direktiivin 2014/53/EU oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.           |
| Latviski | Ar šo PLANET Technology Corporation, apliecina, ka šī 11be Wireless AP atbilst Direktīvas 2014/53/EU pamatprasībām un citiem atbilstošiem noteikumiem.                                               | Svenska | Härmed intygar, PLANET Technology Corporation, att denna 11be Wireless AP står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/EU. |